# JVC®

## *LCD Flat Television Users Guide*

### *For Models:*
### *LT-37X898*
### *LT-42X898*
### *LT-47X898*

*Illustration of LT-42X898 and RM-C1400*

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**Important Note:**

In the spaces below, enter the model and serial number of your television (located at the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

**Model Number:**

**Serial Number:**

LCT2329-001A-A
0807TNH-II-IM

# Important Safety Precautions

**CAUTION**
## RISK OF ELECTRIC SHOCK
### DO NOT OPEN

**CAUTION:** To reduce the risk of electric shock. Do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

**CAUTION:** TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

**ENERGY STAR**

• As an "ENERGY STAR®" partner, JVC has determined that this product or product model meets the "ENERGY STAR®" guidelines for energy efficiency.

## IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings.  Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus  (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.  A grounding type plug has two blades and a third grounding prong.  The wide blade or the third prong are provided for your safety.  If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.  When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel.  Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**15)** Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**16)** Avoid improper installation and never position the unit where good ventilation is impossible. When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture. Keep to the minimum distance guidelines shown for safe operation.
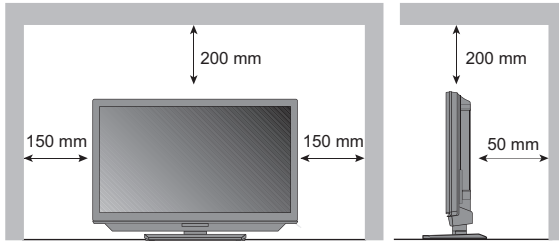


**17)** **Cautions for installation**
— Do not tilt the TV towards the left or right, or towards the back.
— Install the TV in a corner on the floor so as to keep cords out of the way.
— The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling.

**18)** Make enough room for inserting and removing the power plug. Place the TV as close to the outlet as possible. The main power supply for this TV is controlled by inserting or removing the power plug.

**19)** Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

**20)** When this TV is connected to the wall outlet, it is always on standby even when all the LED lamps are not lit. To shut down the TV, unplug the TV from the wall outlet.

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**FCC Notice:**

**Caution:** Changes or modifications not expressly approved by party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

# Warnings

We have an important note for customers who subscribe to basic cable services (do not have a separate cable box) and plan to use their JVC TV remote control to select channels.

Once you run the Auto Tuner Setup (which detects and programs all the channels your TV is receiving through the RF input), every channel number available from your cable company will appear in your television's Channel Summary and they will all be marked as available for scanning. Even though every channel is detected and appears as available, you will only be able to view those that you specifically subscribe to from your cable company. This will likely mean there are blank channels between those channels you wish to scan or "surf".

We apologize for any inconvenience this may cause but it is important to note that this is not a malfunction of your television. If you want to sequentially scan those channels you subscribe to without blank ones in between, you can contact your cable company for their cable box and remote.

## Avoiding Ghost Images

Displaying fixed images for extended periods of time can leave a subtle but temporary ghost image on your screen.  To avoid this, mix your viewing pattern.

**Examples include, but are not limited to the following:**

- Stock-market report bars
- Shopping channel logos and pricing displays
- Video game patterns or scoreboards
- Bright station logos
- Internet web sites or other computer-style images
- DVD discs, video tapes, laser discs
- Broadcast, cable, satellite channels or digital television tuners/converters

**For example...**

TV on                    TV off
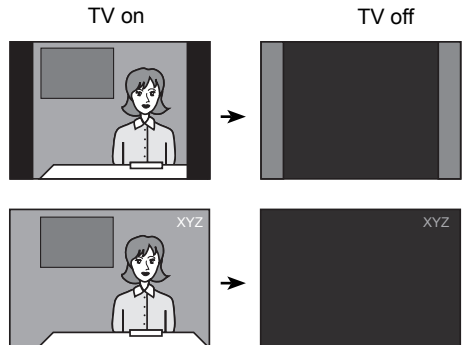
# Warnings

## Caring for the Cabinet

Normally, light dusting with a soft, non-scratching duster will keep your TV clean.

If you wish to wipe down the television, first unplug it. Then wipe gently with a soft cloth, slightly moistened with water. You can add a few drops of mild liquid detergent to the water to help remove spots of oily dirt.

• DO NOT allow liquid to enter the TV through the ventilation slots.
• DO NOT use strong or abrasive cleaners on the TV.
• DO NOT spray liquids or cleaners directly on the TV's surface.
• DO NOT rub or scrub the TV harshly. Wipe the set gently with a soft cloth.

## Caring for the Screen

The screen is treated with an electrostatic-proof coating. When it gets dirty, wipe it gently with a soft cloth. If the screen is very dirty, wipe it down with a cloth dipped in a diluted kitchen cleaner and thoroughly wrung-out. Then wipe immediately after with a clean, dry cloth.

Do not apply alcohol, organic solvents (like acetone), acidic or alkaline cleansers to the screen. These will remove the coating layer and cause discolorations.

Do not push or hit the screen. This could cause scratches on the screen surface and image distortions.

## Tidying the cables

A cable holder which keeps your connection cables tidy is attached to the back of the stand.
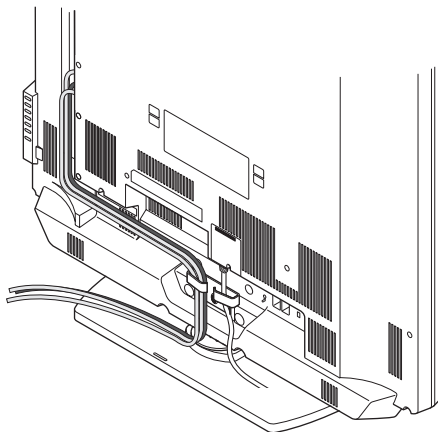
# Warnings

## Disconnecting the stand

If you disconnect the stand, attach the bottom cover and the screw (supplied) into the hole.

**1)** Place the TV face down on a soft cloth on a table.

**2)** Remove the four screws from the back of the TV.
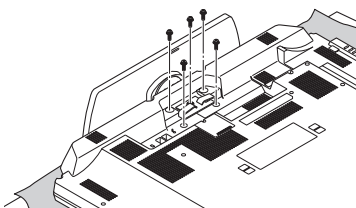


**3)** Pull out the stand from the TV.
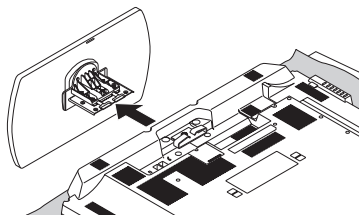


**4)** Cover the hole with a bottom cover and tighten the screw.
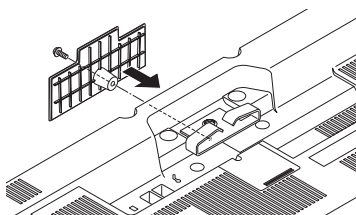


**Note:**

• To re-install the stand, reverse the procedure from **4)** to **1)**.

# Table of Contents

## Unpacking your TV

Thank you for your purchase of a JVC LCD Flat Television. Before you begin setting up your new television, please check to make sure you have all of the following items. In addition to this guide, your television box should include:
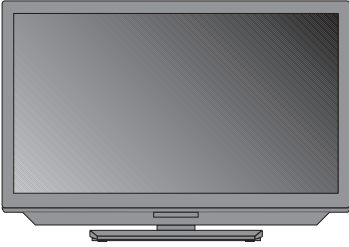
Television x 1                    Remote Control x 1                 AA  Batteries x 2

**Note: Your television and/or remote control may differ from the examples illustrated here.**
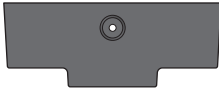
Cover x 1                          Screw x 1

We recommend that before you start using your new television, you read this entire User's Guide so you can learn about your new television's many great features. If you're anxious to start using your television right away, a quick setup guide follows on the next few pages.

# Quick Setup

## TV Models

Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

## Rear Panel Diagram
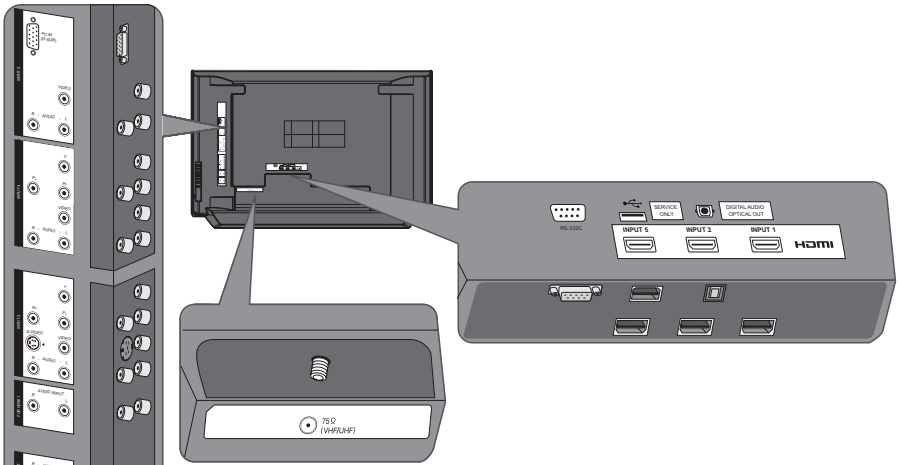


**Notes:**
- The terminal labeled "SERVICE ONLY", is exclusively used to update the software version.
- For governing the usage of the RS-232C terminal, consult your dealer.

## Side Panel Diagram
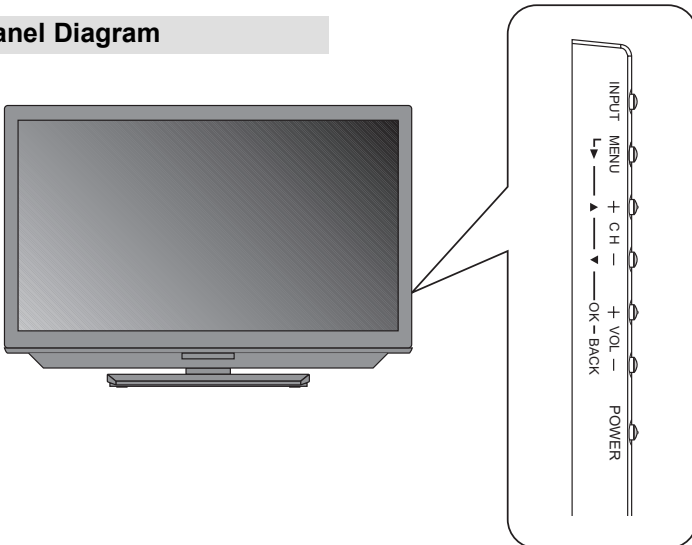
## TV Remote Control



### RM-C1400

**Notes:**

- For information on remote control buttons, see pages 58 - 68.

- SUB CHANNEL and GUIDE buttons are for digital channels. If your TV is connected to an ATSC antenna or Digital Cable, you can use these buttons.

- This remote control is capable of operating many external device brands. See page 69 - 74 for how to program the remote control.

# Quick Setup

## Getting Started

These quick setup pages will provide you, in three easy steps, with the basic information you need to begin using your new television right away. If you have questions, or for more detailed information on any of these steps, please consult other sections of this manual.

## Step 1 – The Remote Control

Before you can operate your remote control, you first need to install the batteries (included).

Raise the latch on the remote's back cover to remove. Insert two batteries, carefully noting the "+" and "–" markings. Place the "–" end in the unit first. Snap the cover back into place.

**When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes (ex. VCR, DVD) may have to be reset. See pages 69 - 74.**
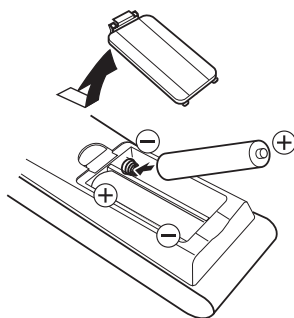
## *Basic Operation*

Turn the television on and off by pressing the POWER button at the top right corner of the remote. If this is the first time you are turning on the TV, the interactive plug in menu appears.

• At first, to watch your TV, select the TV mode by pressing the MODE button on the remote control before you turn the TV power on.

• See page 58 to 68 for details regarding the remote control buttons.

## *Using Menu Buttons*

To use the menu functions, press the MENU button. Next, select a menu using the four arrow keys. The four arrow keys are used only for menu selections.
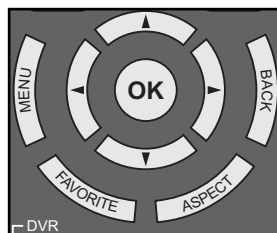
## Step 2 - Connecting your devices

To make these connections, you will use plugs like the ones illustrated below.

### Coaxial Cables

Used to connect an external antenna or cable TV system to your TV.

### Component Cables
### Composite Cables
### Audio Cables

Used to connect audio/video devices like VCRs, DVD players, stereo amplifiers, game consoles, etc.

### S-Video Cable

Used to make video connections with S-Video VCRs, Camcorders and DVD players.

**Notes:**

• The following connection diagrams are examples.

• After you are finished connecting your devices, plug the power cord into the nearest power outlet and turn on the TV.

• If you follow these diagrams and the television does not work properly, contact your local cable operator.

• To connect a DVD player, see VCR Connection.

• If you have a satellite television system, refer to the satellite TV manual.

## *No VCR Connection*

TV Rear Panel

Cable or Antenna Output

Coaxial Cable

75Ω
(VHF/UHF)
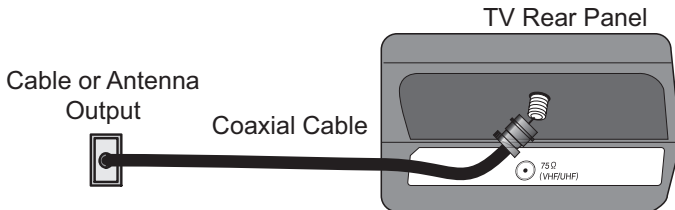
# Quick Setup

## *VCR • DVD Connection*

**Notes:**
- Green, blue and red are the most common colors for DVD cables. Some models may vary colors. Please consult the user's manual for your DVD player for more information.
- Be careful not to confuse the red DVD cable with the red audio cable. It is best to complete one set of connections (DVD or audio output) before starting the other to avoid accidentally switching the cables.
- You may also connect the DVD player to Input 1.

**Diagram #1**
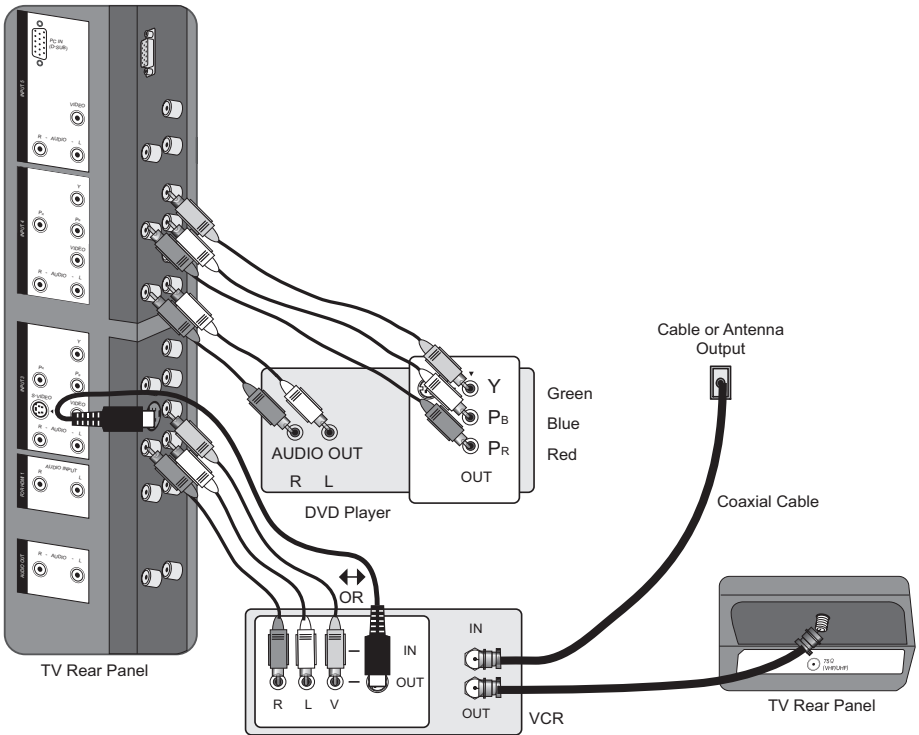


**Note:**
- If this connection setup does not work for you, try the connection setup on page 15.

**Diagram #2**



Cable or Antenna Output

Two-Way Splitter (Not supplied)

Y — Green
P$_B$ — Blue
P$_R$ — Red
OUT

AUDIO OUT
R    L

DVD Player

TV Rear Panel

OR

R   L   V

IN

OUT

IN

OUT

VCR

Coaxial Cable

TV Rear Panel

**15**
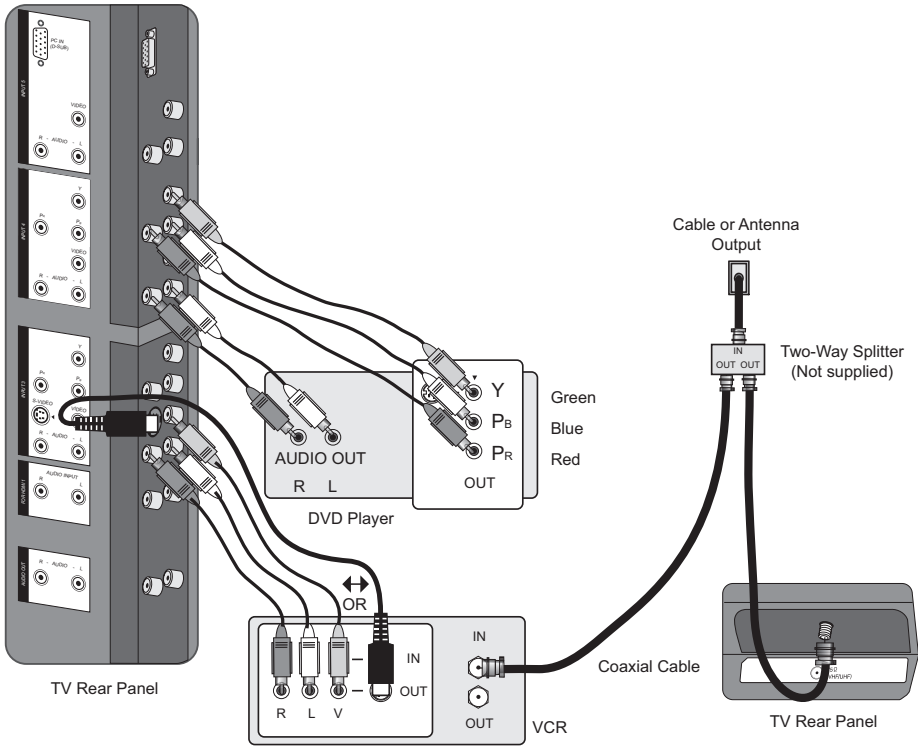
# Quick Setup

## *Connecting to a Camcorder*

You can connect a camcorder to your television by using the input jacks located on the back of the TV.



TV Rear Panel
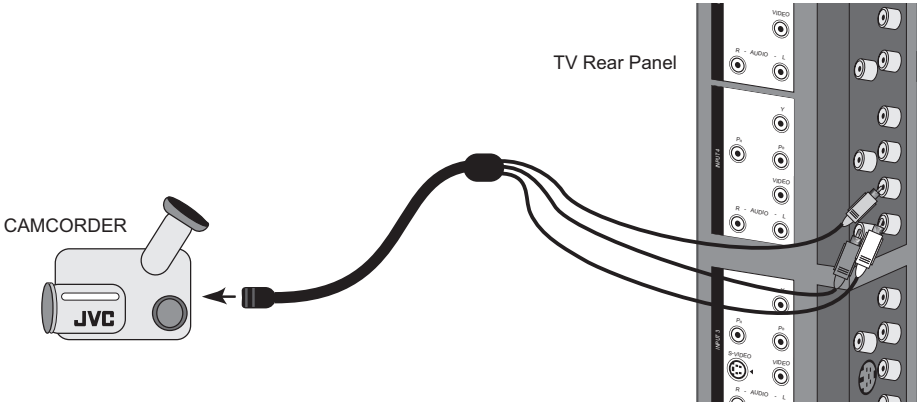
CAMCORDER

1) Connect a yellow composite cable from the camcorder VIDEO OUT to the VIDEO IN on the back of the TV.
2) Connect a white cable from the camcorder LEFT AUDIO OUT to the LEFT AUDIO IN on the back of the TV.
3) Connect a red cable from the camcorder RIGHT AUDIO OUT to the RIGHT AUDIO IN on the back of the TV.

## *Connecting to an External Amplifier*



TV Rear Panel

Speaker          Speaker
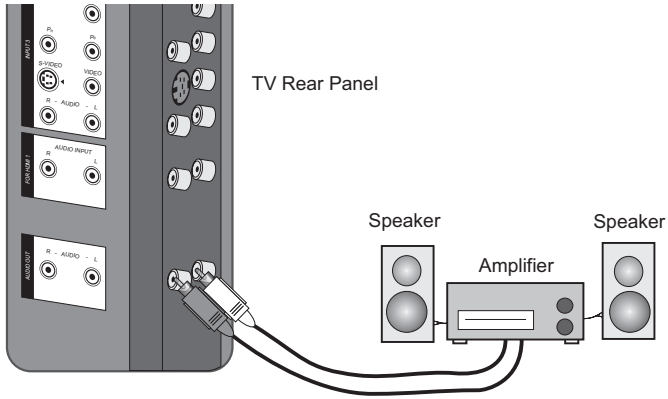
Amplifier

1) Connect a white cable from the LEFT AUDIO OUTPUT on the back of the TV to the LEFT AUDIO INPUT on the amplifier.

2) Connect a red cable from the RIGHT AUDIO OUTPUT on the back of the TV to the RIGHT AUDIO INPUT on the amplifier.

**Notes:**

• Refer to your amplifier's manual for more information.
• You can use AUDIO OUTPUT for your home theater system.
• If you have a device connected to INPUT-1, INPUT-2 or INPUT-5 (set "V5 INPUT" in the INITIAL SETUP menu to "HDMI").  You will not be able to hear any audio from the AUDIO OUT on the back of the TV.

# Quick Setup

## *Connecting to a Digital TV Receiver*

By connecting a Digital TV Receiver, high definition pictures can be displayed on your TV in their digital form.
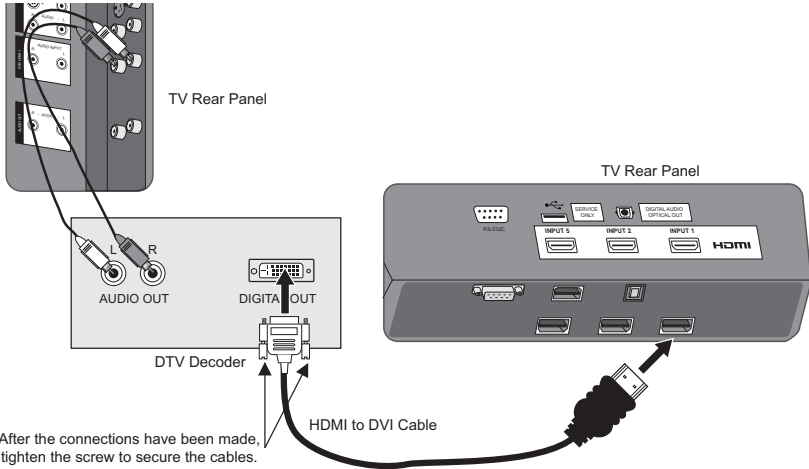


1) Connect the HDMI to DVI Cable from the DIGITAL OUT on the back of your DTV decoder to the HDMI INPUT-1 on the back of the TV.

2) Connect a red cable from the DTV decoder RIGHT AUDIO OUT to the RIGHT AUDIO INPUT HDMI AUDIO IN "R" on the back of the TV.

3) Connect a white cable from the DTV decoder LEFT AUDIO OUT to the LEFT AUDIO INPUT HDMI AUDIO IN "L" on the back of the TV.

• Personal computer compatibility cannot be guaranteed.

• Use an HDMI to DVI cable (commercially available) in order to digitally connect the television with a DTV decoder.

**Notes:**

• If 480p signals (640x480 or 720x480) are displayed on the screen, the horizontal balance may be slightly shifted.  Access the "HDMI SIZE" in the INITIAL SETUP menu to adjust it. (Refer to page 30.)

• When you do the above connection, set "VIDEO-1 AUDIO" in the INITIAL SETUP menu to "ANALOG".  See "VIDEO-1 AUDIO", page 30.

• The Analog Audio input can only be used with the HDMI INPUT-1.

• When setting the "VIDEO-1 AUDIO - ANALOG/DIGITAL" menu setting on the TV, please note that this setting only effects the HDMI INPUT-1 jack and that if you use a DVI to HDMI adapter this connection must be made to the HDMI INPUT-1 along with analog audio cables.

## *Connecting to an HDMI Compatible Device*

By connecting an HDMI compatible device, high definition pictures can be displayed on your TV in their digital form. Some HDMI devices can include DVD players, D-VHS or other HDMI compatible device.

HDMI (High Definition Multimedia Interface) is the first industry supported, uncompressed, all digital audio/video interface. HDMI provides an interface between any audio/video source, such as a set-top box, DVD player, A/V receiver or an audio and/or video monitor, such as a digital television (DTV).



TV Rear Panel

HDMI Compatible Device
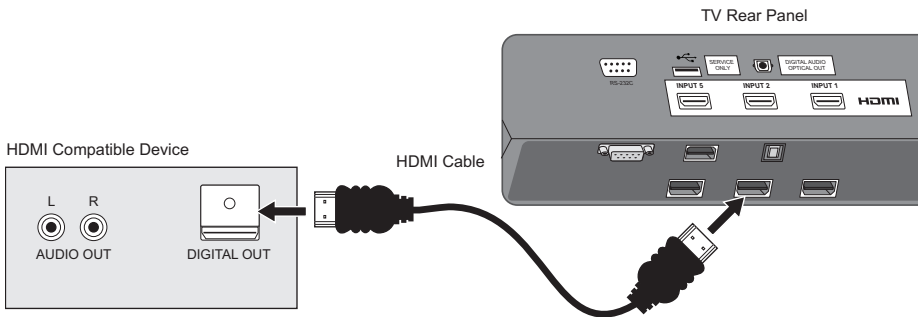
HDMI Cable

1) Connect the HDMI Cable from the DIGITAL OUT on the back of your DTV or HDMI device to the HDMI INPUT-1 on the back of the TV.

Notes:

• When you do the above connection, set "VIDEO-1 AUDIO" in the INITIAL SETUP menu to "DIGITAL". See "VIDEO-1 AUDIO", page 30.

• Some decoders may not respond depending on the equipment that is connected to the HDMI.

• If the HDMI output device signal is changed (for example, 480i/60Hz is changed to 480p/60Hz), the screen may turn green and there may be some distortion for a short time until the signal becomes stable.

• This TV can accept 480i, 480p, 720p, 1080i and 1080p signals via HDMI.

• This JVC television can accept a variety of HD signals, including 720/60p, 1080/60i and 1080/60p. It does not accept a 1080/24p signal. Please note that in some cases, a Blu-ray or HD-DVD may only offer the choice of 1080/60i or 1080/24p. In this case, it is necessary to choose the 1080/60i output. Please refer to your Blu-ray/HD-DVD manual for complete details on choosing the correct output.

# Quick Setup

## *Connecting to an amplifier using your optical output*

You can connect an amplifier that has an optical digital input terminal by using an optical digital cable from the optical output. The signal that is output can be PCM or DOLBY DIGITAL.

TV Rear Panel
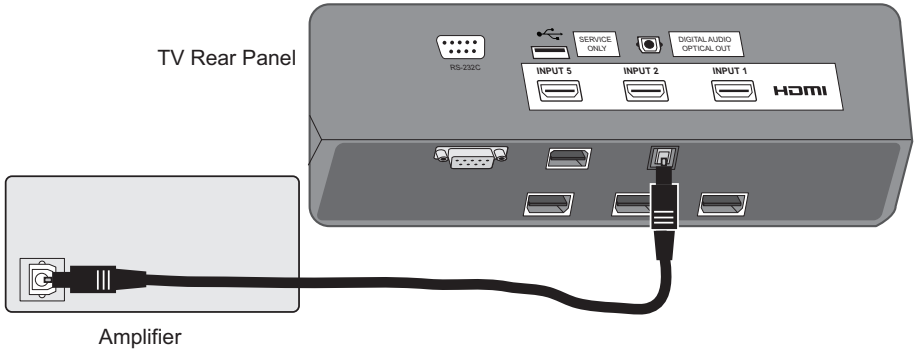
Amplifier

1) Connect the optical cable from underneath the television to the back of the amplifier.

**Notes:**

• This terminal can only output digital audio.

• In order to use the optical output connection, select PCM or DOLBY DIGITAL on Digital Sound in the DIGITAL SETUP Menu. See page 48.

• Refer to your owners manual on using your amplifier.

• You cannot output sound from your Optical Output connection if the audio source is from your HDMI device.

## *Connecting to an AV Receiver using your television's V3 Smart Input*

By connecting your AV Receiver to your television's V3 Smart Input, you can watch picture sources from many different devices, without having to change or use the other input connections on your TV.  This allows you to free up the other input connections so you can connect more devices to your television.

TV Rear Panel

AV Receiver

MONITOR OUT

P<sub>R</sub>

P<sub>B</sub>

Y
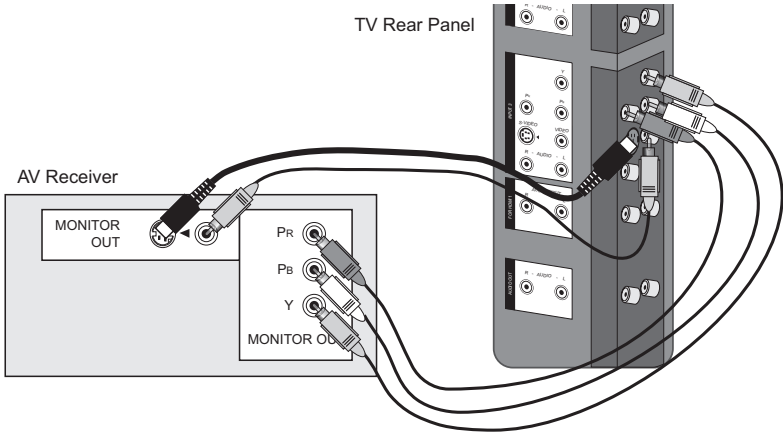
MONITOR OU

1) Connect an S-Video Cable from the AV Receiver's MONITOR OUT to the S-Video INPUT-3 on the back of the TV.

2) Connect a Yellow Composite Cable from the AV Receiver's MONITOR OUT to the VIDEO INPUT-3 on the back of the TV.

3) Connect a Green Component Cable from the AV Receiver's Y MONITOR OUT to the Y VIDEO INPUT-3 on the back of the TV.

4) Connect a Blue Component Cable from the AV Receiver's P$_B$ MONITOR OUT to the P$_B$ VIDEO INPUT-3 on the back of the TV.

5) Connect a Red Component Cable from the AV Receiver's P$_R$ MONITOR OUT to the P$_R$ VIDEO INPUT-3 on the back of the TV.

**Notes:**

• Please refer to your AV Receiver instruction manual for more information on connecting your speakers and other devices like a DVD player.
• Use your AV Receiver's remote to switch to the different devices you have connected.
• Some AV Receivers may not respond when the V3 Smart Input function is turned on.

• If you have video connections for each input device connected to your AV Receiver, you should not connect them using both S-Video and Composite connection at the same time when you are using V3 Input as the V3 Smart Input.  In this case we recommend using the S-Video connection.

# Quick Setup

## *Connecting to the computer*

This TV can be used as a computer screen. Use a commercially available D-SUB cable to connect the TV's PC INPUT terminal to the computer's analog RGB output terminal. If you want to listen to the sound from the computer, use a commercially available RCA cable to connect the INPUT-5 audio input terminal to the computer's audio output terminal.

TV Rear Panel
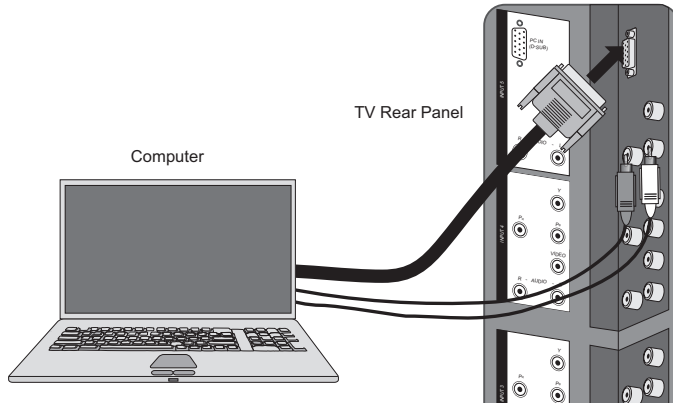
Computer

**Notes:**

• When you do the above connection, set "V5 INPUT" in the INITIAL SETUP menu to "PC". See page 49.

• Refer to your computer manual for a detailed explanation of the connections concerning your computer.

• Use cable with ferrite cores and no longer than of 3 m to avoid electromagnetic disturbance.

• Make sure that the connectors are facing the correct way when connecting.

• After connecting, tighten the two screws to fix the connectors in place.

### Looking at the images from a computer

After starting the computer, press the V5 button on the remote control. You can listen to the sound when the sound from the computer is connected to the INPUT-5 AUDIO input terminal.

## Table of signals for each type of computer

| Resolution | Vertical Frequency (Hz) | Horizontal Frequency (kHz) |
|---|---|---|
| 640 x 480 (VGA) | 60.0 | 31.5 |
| 1024 x 768 (XGA) | 60.0 | 48.4 |

- Only the above formats are supported.
- Even with the above formats at 60 Hz, some problems may be experienced depending on the quality of the synchronous signal. (Depending on the quality, some pictures may not be displayed correctly).
- Apple Macintosh**\*** computers are not supported.

## When a picture is not displayed

With some computers, some problems can be solved by changing the settings. Check the computer's refresh rate and set it to 60Hz. Computers that cannot set the refresh rate to 60 Hz, cannot be used with this TV. Refer to the computer's instruction manual.

**\***Apple Macintosh is a registered trademark of Apple Inc.

**Note:**
- If you are inputting a PC signal that is invalid, "Invalid Signal" will appear on the TV screen. It appears when the input is PC and it is a single screen.

# Quick Setup

## Step 3 – The Interactive Plug In Menu

When you turn your television on for the first time the interactive plug in menu will appear. The plug in menu helps you to get your TV ready to use by letting you set your preferences for:

• The language in which you want the onscreen menus to appear.

• Setting the TV's clock to the correct time so your timer functions will work properly. You can choose "AUTO" or "MANUAL" for setting the clock.

• The auto tuner setup of which channels you wish to receive.

We recommend you complete the interactive plug in items before you start using your television.

**Notes:**

• The interactive plug in menu setting does not appear if your TV has been turned on before. In this case use the onscreen menus to perform these settings. See pages 34, 56, 37.

• If you press the Menu button while setting up the interactive plug in menu, it will skip over it.

## *Language*

After the "JVC INTERACTIVE PLUG IN MENU" has been displayed, the TV automatically switches to the LANGUAGE settings. You can choose to view your onscreen menus in three languages: ENGLISH, FRANÇAIS (French) or ESPAÑOL (Spanish).

| LANGUAGE/LANGUE/IDIOMA |
|---|
| |
| ( ENGLISH ) |
| |
| ▼ NEXT |
| ⬍ SELECT     ◄► OPERATE     MENU EXIT |
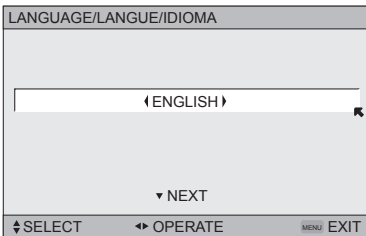
◄►     To choose a language:
         ENGLISH, FRANÇAIS or ESPAÑOL

▼     To NEXT (To set clock)

*(Continued...)*

## Auto Clock Set

Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most public analog broadcasting stations. If you do not have this in your area, you will have to set the clock manually. See manual clock set below. To set the clock using the XDS signal:

| SET CLOCK | |
|---|---|
| MODE | ◀ AUTO ▶ |
| TIME | -- : -- -- |
| TIME ZONE | ◀ ATLANTIC ▶ |
| D.S.T. | ◀ ON ▶ |
| | ▼ NEXT |
| ⬍ SELECT   ◀▶ OPERATE | MENU EXIT |
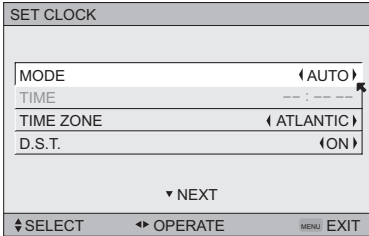
◀▶     To choose AUTO
▼     To TIME ZONE

◀▶     To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)

▼     To move to D.S.T. (Daylight Savings Time)
◀▶     To turn D.S.T. ON or OFF
▼     To NEXT (To Auto Tuner Setup)

**Notes:**

• D.S.T. can be used when it is set to ON in the SET CLOCK menu.
• Only when the MODE is set to AUTO, the Daylight Saving Time feature automatically adjusts your TV's clock for Daylight Saving.
• The real time and D.S.T. may not be set correctly depending on the broadcasting signal and receiving conditions.  In this case, set your clock manually and turn D.S.T. to OFF.
• You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

## Manual Clock Set

To set your clock manually (without using the XDS signal), choose MANUAL. If you choose AUTO, see auto clock set above.

| SET CLOCK | |
|---|---|
| MODE | ◀ MANUAL ▶ |
| TIME | -- : -- -- |
| TIME ZONE | ◀ ATLANTIC ▶ |
| D.S.T. | ◀ ON ▶ |
| | ▼ START CLOCK |
| ⬍ SELECT   ◀▶ OPERATE | MENU EXIT |
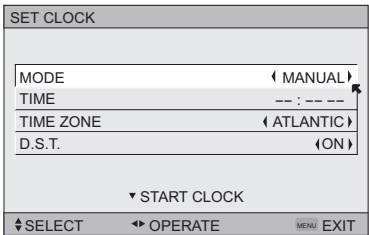
◀▶     To choose MANUAL
▼     To TIME
◀▶     To set the hour
▼     To minute
◀▶     To set the minute
▼     To TIME ZONE
◀▶     To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▼     To move to D.S.T. (Daylight Savings Time)
◀▶     To turn D.S.T. ON or OFF
▼     To START CLOCK

**Note:**

• You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

*(Continued...)*

**25**

## *Auto Tuner Setup*

In auto tuner setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/– buttons) you will receive only clear, active channels.

| AUTO TUNER SETUP | |
|---|---|
| TUNER MODE | ◀ AIR ▶ |
| | |
| ▼ START | |
| ⬍ SELECT     ◄► OPERATE     MENU EXIT | |
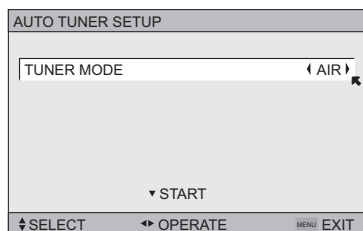
◀▶    To choose CABLE or AIR (or SKIP when you skip Auto Tuner Setup)

▼    To START

*After Analog Auto Tuner Setup is finished, Digital Auto Tuner Setup starts.*

| NOW PROGRAMMING ! ▶▶▶ ⬜ ▶▶▶ 48 |
|---|

➡

| 〝Å〟   Now Programming... 20 |
|---|
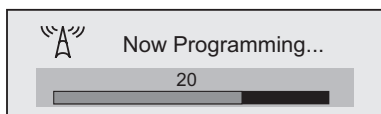
When the setup is finished, "THANK YOU ! SETUP IS NOW COMPLETE" is displayed. Your quick setup is now complete. You can now begin watching your television, or you can continue on in this guide for more information on programming your remote control, or using the JVC onscreen menu system to customize your television viewing experience.

**Notes:**

• If you want to cancel the Auto Tuner Setup, press the MENU button.
• Noise Muting will not work during Auto Tuner Setup.
• If you choose SKIP, it finished without doing the Auto Tuner Setup.

**Cable Box and Satellite Users:** After your auto tuner setup is complete, you may, (depending on the type of hookup), have only 1 channel, usually 3 or 4 in the auto tuner memory.  This is normal.

## Using the Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:

▲▼   Up and Down arrows mean:
  • Move vertically in a main menu screen
  • Move through a submenu screen
  • Move to the next letter, number, or other choice in a submenu

◄►   Left and right arrows mean:
  • Select a highlighted menu item
  • Select an item in a submenu
  • Select numbers in certain menu options

The "press button" icon means you should press the button named on your remote control. (Button names appear in SMALL CAPITAL LETTERS.)

The "helping arrow" icon points to the highlighted or selected item in a menu.

**To bring up the onscreen menu**, press the MENU button on the remote control. The item that appears in green is the one currently selected. If you use the Menu button on the TV's side panel instead of the remote, an additional menu screen showing VIDEO STATUS and ASPECT will appear between INITIAL SETUP and PICTURE ADJUST. The "INTERACTIVE PLUG IN MENU" will appear the first time the TV is plugged in.

```
▥ ▢ ⊙ ▯  INITIAL SETUP
▲ PREVIOUS
AUTO TUNER SETUP ▶
                                              ◥
 CHANNEL SUMMARY ▶
 V-CHIP ▶
 SET LOCK CODE ▶
 AUTO DEMO                        ◄ ON ▶

▼ NEXT PAGE                          (4/5)
⬍ SELECT        ◄► OPERATE     MENU EXIT
```
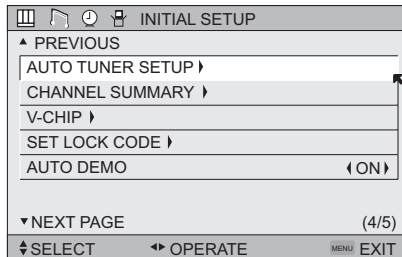
**Note:**
• Menus shown in this book are illustrations, not exact replications of the television's onscreen displays.

# Onscreen Menus

## The Onscreen Menu System

Your television comes with JVC's onscreen menu system. The onscreen menus let you make adjustments to your television's operation simply and quickly.  Examples of the onscreen menus are shown on the next page. Detailed explanations on using each menu follow later in this guide. For information about the interactive plug in Menu, see pages 24 - 26.

## The Onscreen Menu System

To open the onscreen menu system, press the MENU button on the remote control. You navigate within the onscreen menus by using the four directional arrow buttons on the remote control.

The selected feature and option on a menu screen are highlighted in a different color.

**Selected Feature (Green)** → 
```
LANGUAGE          ENG.  FRAN.  ESP.
CLOSED CAPTION ▶
```
 **Selected Option (Blue)**

To move to a different feature use the ▲ ▼ arrows to move up or down the list. When you press the up arrow at the top of the list or the down arrow at the bottom, the next menu screen will appear. Use the arrows ◄ ► to select an option from the highlighted feature. Pressing MENU on the remote control will close the onscreen menu system and return you to normal television viewing.

Each menu and its features will be discussed in the following pages of this guide.

---

**Notes:**

• If you do not press any buttons for about a minute, the onscreen menu will automatically shut off.
• Button names in this guide are shown in SMALL CAPITAL LETTERS.
• Menus may appear in different sizes onscreen depending on the aspect ratio selected.
• Some menu items may not appear in menu screens when certain aspect ratios or inputs are selected.

---

Press the MENU button

**To CLOCK/TIMERS**

---

```
╔═══════════════════════════════════╗
║ ▦ ◠ ⏱ 🔒  INITIAL SETUP           ║
║ ▲ PREVIOUS                         ║
║ HDMI SIZE ▶                  AUTO  ║
║ VIDEO-1 AUDIO           ◀ DIGITAL ▶║
║                                    ║
║                                    ║
║ ▼ NEXT PAGE                  (1/5) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**INITIAL SETUP 01**

```
╔═══════════════════════════════════╗
║ ▦ ◠ ⏱ 🔒  INITIAL SETUP           ║
║ ▲ PREVIOUS                         ║
║ NOISE MUTING               ◀ ON ▶  ║
║ FRONT PANEL LOCK          ◀ OFF ▶  ║
║ VIDEO INPUT LABEL ▶                ║
║ POSITION ADJUSTMENT ▶              ║
║ POWER INDICATOR           ◀ OFF ▶  ║
║ ▼ NEXT PAGE                  (2/5) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**INITIAL SETUP 02**
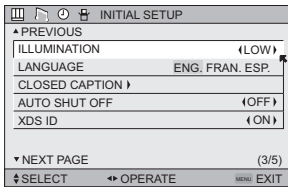
```
╔═══════════════════════════════════╗
║ ▦ ◠ ⏱ 🔒  INITIAL SETUP           ║
║ ▲ PREVIOUS                         ║
║ ILLUMINATION              ◀ LOW ▶  ║
║ LANGUAGE         ENG. FRAN. ESP.   ║
║ CLOSED CAPTION ▶                   ║
║ AUTO SHUT OFF             ◀ OFF ▶  ║
║ XDS ID                     ◀ ON ▶  ║
║ ▼ NEXT PAGE                  (3/5) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**INITIAL SETUP 03**

```
╔═══════════════════════════════════╗
║ ▦ ◠ ⏱ 🔒  INITIAL SETUP           ║
║ ▲ PREVIOUS                         ║
║ AUTO TUNER SETUP ▶                 ║
║ CHANNEL SUMMARY ▶                  ║
║ V-CHIP ▶                           ║
║ SET LOCK CODE ▶                    ║
║ AUTO DEMO                  ◀ ON ▶  ║
║ ▼ NEXT PAGE                  (4/5) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**INITIAL SETUP 04**

```
╔═══════════════════════════════════╗
║ ▦ ◠ ⏱ 🔒  INITIAL SETUP           ║
║ ▲ PREVIOUS                         ║
║ DIGITAL SETUP ▶                    ║
║ V5 INPUT ▶                   HDMI  ║
║                                    ║
║                                    ║
║                                    ║
║ ▼ NEXT PAGE                  (5/5) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
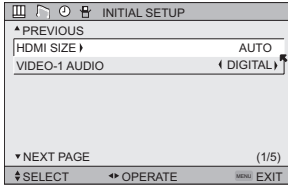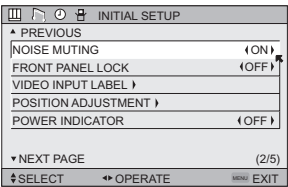**INITIAL SETUP 05**

---

```
╔═══════════════════════════════════╗
║ ▦  PICTURE ADJUST      ◠ ⏱ 🔒     ║
║ ▲ PREVIOUS        STANDARD         ║
║ DIGITAL VNR ▶               AUTO   ║
║ MPEG NR ▶                    ON    ║
║ SMART SENSOR ▶              OFF    ║
║ SENSOR EFFECT             ◀ OFF ▶  ║
║ THEATER PRO II ▶                   ║
║ RESET                              ║
║ ▼ NEXT PAGE                  (3/3) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**PICTURE ADJUST 03**

```
╔═══════════════════════════════════╗
║ ▦  PICTURE ADJUST      ◠ ⏱ 🔒     ║
║ ▲ PREVIOUS        STANDARD         ║
║ COLOR TEMPERATURE ▶         HIGH   ║
║ COLOR MANAGEMENT ▶          OFF    ║
║ DYNAMIC GAMMA ▶             OFF    ║
║ SMART PICTURE ▶             ON     ║
║ NATURAL CINEMA ▶           AUTO    ║
║ ▼ NEXT PAGE                  (2/3) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**PICTURE ADJUST 02**
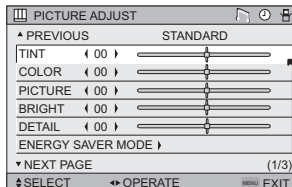
```
╔═══════════════════════════════════╗
║ ▦  PICTURE ADJUST      ◠ ⏱ 🔒     ║
║ ▲ PREVIOUS        STANDARD         ║
║ TINT      ◀ 00 ▶    ═══╪═══        ║
║ COLOR     ◀ 00 ▶    ═══╪═══        ║
║ PICTURE   ◀ 00 ▶    ═══╪═══        ║
║ BRIGHT    ◀ 00 ▶    ═══╪═══        ║
║ DETAIL    ◀ 00 ▶    ═══╪═══        ║
║ ENERGY SAVER MODE ▶                ║
║ ▼ NEXT PAGE                  (1/3) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**PICTURE ADJUST 01**

---

```
╔═══════════════════════════════════╗
║ ▦ ◠  SOUND ADJUST         ⏱ 🔒    ║
║ ▲ PREVIOUS            HIGH         ║
║ MaxxBass    ◀ 05 ▶ ═══════╪═══     ║
║ MaxxTreble  ◀ 05 ▶ ═══════╪═══     ║
║ MaxxStereo  ◀ 05 ▶ ═══════╪═══     ║
║ MaxxVolume                 ◀ OFF ▶ ║
║ BALANCE     ◀ 00 ▶    ═════╪═════  ║
║ ▼ NEXT PAGE                  (1/2) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**SOUND ADJUST 01**
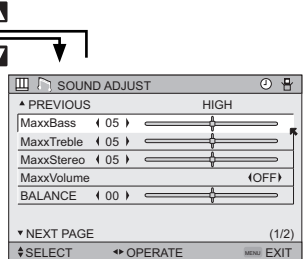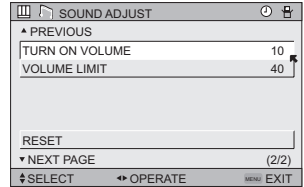
```
╔═══════════════════════════════════╗
║ ▦ ◠  SOUND ADJUST         ⏱ 🔒    ║
║ ▲ PREVIOUS                         ║
║ TURN ON VOLUME                10   ║
║ VOLUME LIMIT                  40   ║
║                                    ║
║ RESET                              ║
║ ▼ NEXT PAGE                  (2/2) ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**SOUND ADJUST 02**
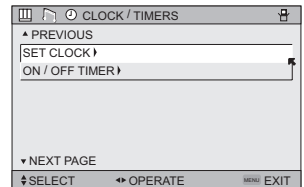
```
╔═══════════════════════════════════╗
║ ▦ ◠  CLOCK / TIMERS         🔒    ║
║ ▲ PREVIOUS                         ║
║ SET CLOCK ▶                        ║
║ ON / OFF TIMER ▶                   ║
║                                    ║
║                                    ║
║ ▼ NEXT PAGE                        ║
║ ⬍ SELECT    ◀▶ OPERATE   MENU EXIT ║
╚═══════════════════════════════════╝
```
**CLOCK/TIMERS**

**To INITIAL SETUP 01**

---

**Notes:**

- The HDMI SIZE menu can only be displayed when a 480p picture signal is input to the HDMI terminal and the picture is being displayed on the screen.
- SMART PICTURE menu cannot be selected when the Video Status mode is DYNAMIC.
- DETAIL menu cannot be selected when the Video Status mode is THEATER.
- When the Menu button on the TV side panel is pressed, the FRONT PANEL CONTROL menu between INITIAL SETUP 05 and PICTURE ADJUST 01 will appear.

# Initial Setup Menus

## HDMI Size

The HDMI SIZE option can only be selected in the INITIAL SETUP menu when an HDMI 480p picture signal is being input to the HDMI terminal.  This option adjusts the position when an HDMI or DVI 480p picture signal is being displayed on the screen.  There are two types of HDMI 480p picture signals: 640x480 and 720x480. If the displayed picture is slightly shifted, the position can be adjusted by selecting AUTO, SIZE1 or SIZE2.

Press the MENU button

▲▼  To HDMI SIZE
◄►  To enter
▲▼  To select AUTO, SIZE1 or SIZE2

Press the MENU button to finish

| HDMI SIZE |
|---|
| AUTO |
| SIZE1 |
| SIZE2 |

**Notes:**

• The HDMI SIZE menu can only be selected when a HDMI or DVI 480p picture signal is input to the HDMI terminal and the picture is being displayed on the screen.
• You can select AUTO only when the signal is 480p for HDMI.  When you select AUTO, the television will select "SIZE1" or "SIZE2" automatically.

## Video-1 Audio

This feature is used if you have a DVI or HDMI compatible component connected to your TV.

Press the MENU button

▲▼  To VIDEO-1 AUDIO
◄►  To select ANALOG, DIGITAL or AUTO

Press the Menu button when finished

```
▥ ▯ ⏲ ▤  INITIAL SETUP
▲ PREVIOUS
HDMI SIZE ▶                         AUTO
VIDEO-1 AUDIO                  ◄ DIGITAL ▶



▼ NEXT PAGE                        (1/5)
⬍ SELECT       ◄► OPERATE    MENU EXIT
```

**Notes:**

• If your DVI or HDMI component is capable of digital audio and video, choose DIGITAL.  If your DVI or HDMI component is capable of analog audio and digital video, choose ANALOG.
• Refer to your DVI or HDMI component's instruction manual for more information.
• When you select AUTO, the television will select "ANALOG" or "DIGITAL" automatically, depending on the audio input from the HDMI.

## Noise Muting

This feature inserts a blank gray screen over channels which are not broadcasting or are too weak to be received clearly.

Press the MENU button

▲▼ To NOISE MUTING
◄► To turn ON or OFF

Press the MENU button when finished

```
┌────────────────────────────────────┐
│ ▥ ▧ ⊙ ▤  INITIAL SETUP              │
│ ▲ PREVIOUS                          │
│ NOISE MUTING              ◄ ON ►    │
│ FRONT PANEL LOCK          ◄ OFF ►   │
│ VIDEO INPUT LABEL ▶                 │
│ POSITION ADJUSTMENT ▶               │
│ POWER INDICATOR           ◄ OFF ►   │
│                                     │
│ ▼ NEXT PAGE                  (2/5)  │
│ ⬍ SELECT      ◄► OPERATE   MENU EXIT│
└────────────────────────────────────┘
```
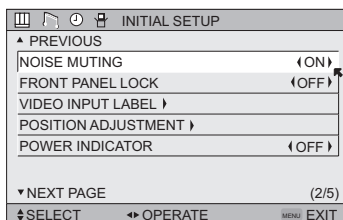
**Notes:**
• Noise muting will not work during auto tuner setup or when you operate channel summary.
• Noise muting will not work when the digital TV is displayed.

## Front Panel Lock

This allows you to lock the keys on the side of the TV, so that a child may not accidentally change your viewing preferences.

Press the MENU button

▲▼ To FRONT PANEL LOCK
◄► To turn ON or OFF

Press the MENU button when finished

```
┌────────────────────────────────────┐
│ ▥ ▧ ⊙ ▤  INITIAL SETUP              │
│ ▲ PREVIOUS                          │
│ NOISE MUTING              ◄ ON ►    │
│ FRONT PANEL LOCK          ◄ OFF ►   │
│ VIDEO INPUT LABEL ▶                 │
│ POSITION ADJUSTMENT ▶               │
│ POWER INDICATOR           ◄ OFF ►   │
│                                     │
│ ▼ NEXT PAGE                  (2/5)  │
│ ⬍ SELECT      ◄► OPERATE   MENU EXIT│
└────────────────────────────────────┘
```
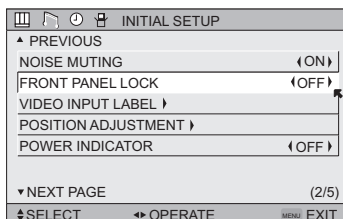
You can turn off this feature in the following ways:

– Use the remote control.
– Press the MENU button on the side of the TV for more than 3 seconds. In this case, the OSD for FRONT PANEL LOCK will appear.
– Unplug the power cord, and plug it back in. Do this if your batteries die or you lose your remote control.

**Note:**
• To turn ON/OFF the TV, press the POWER button for more than 3 seconds. This feature will remain ON.

# Initial Setup Menus

## Video Input Label

This function is used to label video input connections for the onscreen displays.

Press the MENU button

▲▼     To VIDEO INPUT LABEL

◄►     To enter

▲▼     To select the desired video input

◄►     To select the desired preset input label (see chart below)

Press the OK button to save

Press the MENU button when finished

```
┌─────────────────────────────────────┐
│ ⊟  VIDEO INPUT LABEL                 │
│ ┌───────────────────────────────┐   │
│ │ VIDEO-1              ◄VCR►     │   │
│ │ VIDEO-2              ◄DVD►     │   │
│ │ VIDEO-3              ◄ SAT►    │   │
│ │ VIDEO-4              ◄GAME►    │   │
│ │ VIDEO-5              ◄ STB►    │   │
│ └───────────────────────────────┘   │
│         PRESS OK TO FINISH          │
│ ─────────────────────────────────── │
│ ⬍ SELECT     ◄► OPERATE   MENU EXIT │
└─────────────────────────────────────┘
```
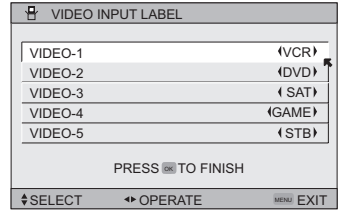
| Preset Labels | Select when... |
|---|---|
| **VCR** | You have a VCR connected to the video input |
| **DVD** | You have a DVD connected to the video input |
| **PVR** | You have a Personal Video recorder connected to the video input |
| **DVHS** | You have a Digital VCR connected to the video input |
| **STB** | You have a Set-top Box connected to the video input |
| **SAT** | You have a Satellite Receiver connected to the video input |
| **AMP** | You have an Amplifier connected to the video input |
| **GAME** | You have a Video Game connected to the video input |
| **CAM** | You have a Video Camera connected to the video input |
| **DISC** | You have a Video Disc player connected to the video input |

## Position Adjustment

Position adjustment allows you to adjust the position of the picture on the screen vertically when the aspect is set to panorama or cinema.

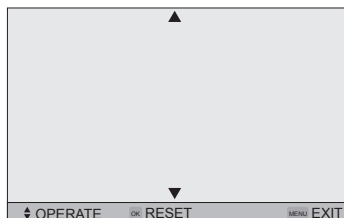Press the MENU button

▲▼     To POSITION ADJUSTMENT
◀▶     To enter
▲▼ ◀▶   To adjust the position

Press the MENU button to finish

**Notes:**

• To reset the adjustment to the center, press the OK button.
• When the arrow disappears, while you are adjusting the position, the position is at its maximum limit.
• If you select REGULAR, SLIM, FULL or FULL NATIVE size with aspect or Multi Screen, position adjustment option is not selected.
• When you change the screen size, perform the position adjustment again.
• Position adjustment allows you to adjust the screen position vertically and horizontally when the aspect is set Panorama Zoom or Cinema Zoom for 1080i and 720p signals, or when PC mode is set.
• It is also possible to use Position Adjustment when you are in PC Mode
• When you are receiving a 1080p signal, Position Adjustment cannot be selected.

---

## Power Indicator

Power indicator allows you to adjust the brightness of the power indicator.

Press the MENU button

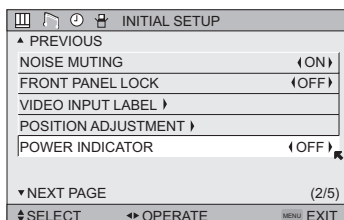▲▼     To POWER INDICATOR
◀▶     To turn LOW, HIGH or OFF

Press the MENU button to finish

**Notes :**
• When OFF is selected :
  The LED disappears if you have a TV signal.
  The LED is lit as "LOW" when there is no TV signal.

• When the On Timer turns ON, the LED is lit as "LOW" when you turn the power off.
• If you set a timer on the TV, the power indicator will light even if the TV is on stand by.

# Initial Setup Menus

## Illumination

The illumination feature allows you to adjust the brightness of the light on the front of the television. When you turn the power on the televison, the front panel light remains on when illumination is set to LOW or HIGH.

Press the Menu button

▲▼     To ILLUMINATION

◄►     To choose HIGH, LOW or OFF

Press the MENU button when finished

```
▥ ◟ ◷ ⌘  INITIAL SETUP
▲ PREVIOUS
ILLUMINATION              ◄LOW►
LANGUAGE             ENG. FRAN. ESP.
CLOSED CAPTION ►
AUTO SHUT OFF             ◄OFF►
XDS ID                    ◄ON►

▼ NEXT PAGE                 (3/5)
⬍ SELECT      ◄► OPERATE    MENU EXIT
```

## Language

The language function is described on page 24 as the interactive plug in menu. If you need to choose the language again, follow the steps below.

Press the Menu button

▲▼     To LANGUAGE

◄►     To choose a language: ENG. (English), FRAN. (French) or ESP. (Spanish)

Press the MENU button when finished

```
▥ ◟ ◷ ⌘  INITIAL SETUP
▲ PREVIOUS
ILLUMINATION              ◄LOW►
LANGUAGE             ENG. FRAN. ESP.
CLOSED CAPTION ►
AUTO SHUT OFF             ◄OFF►
XDS ID                    ◄ON►

▼ NEXT PAGE                 (3/5)
⬍ SELECT      ◄► OPERATE    MENU EXIT
```
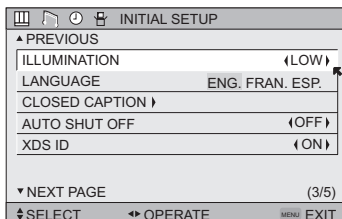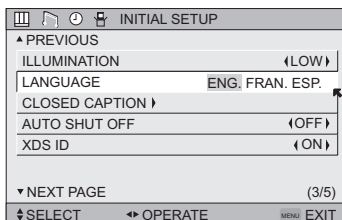
## Closed Caption

Many broadcasts now include an onscreen display of dialog called closed captions. Some broadcasts may also include displays of additional information in text form. Your television can access and display this information using the closed caption feature. To activate the closed caption feature, follow the steps below. There are three methods. When you are watching analog channels, you can perform Analog Setting of closed caption. When you are watching digital channels, you can perform Digital Auto Setting or Digital Manual Setting.

### Analog Setting

Press the MENU button

▲▼     To CLOSED CAPTION
◄►     To enter
▲▼     To MODE
◄►     To select CAPTION or TEXT in MODE
▲▼     To CAPTION or TEXT
◄►     To select a caption (CC1 to CC4) or text channel (T1 to T4)

Press the OK button to save

Press the MENU button when finished

```
⌘  CLOSED CAPTION

MODE                      ◄TEXT►
CAPTION                   ◄CC1►
TEXT                      ◄T1►



          PRESS ⊛ TO FINISH
⬍ SELECT      ◄► OPERATE    MENU EXIT
```
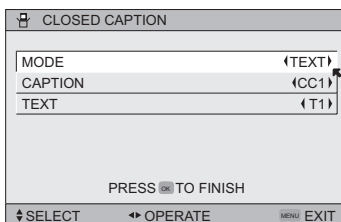
## Digital Auto Setting

| | |
|---|---|
| 👆 | Press the MENU button |
| ▲▼ | To CLOSED CAPTION |
| ◄► | To enter |
| ▲▼ | To Type |
| ◄► | To select Auto, Advanced or Basic |

> **Auto:** *Shows closed caption a priority for digital channels over analog channels. It is set automatically.*
> **Advanced:** *Shows only the digital closed caption.*
> **Basic:** *Shows only the analog closed caption.*

| | |
|---|---|
| ▲▼ | To Service |
| ◄► | To select 1, 2, 3, 4, 5 or 6 |
| ▲▼ | To Appearance |
| ◄► | To enter |
| ◄► | To select Auto ("Manual, see page 36) |
| ▲▼ | To Set |
| 👆 | Press the OK button to save |

> *The font/type and color are set automatically.*

| | |
|---|---|
| ▲▼ | To Set |
| 👆 | Press the OK button to save |
| 👆 | Press the MENU button when finished |

**Note:**
• If you want to cancel the settings, select cancel.

---

**Digital Closed Caption**

Preview

Closed Caption Sample

| Type | ◄ Auto ► |
| Service | 1 |
| Appearance | ► |

Cancel          Set

Select    Operate    BACK Back    MENU Exit

---

**Digital Closed Caption > Appearance**

Preview

Closed Caption Sample

| Appearance Mode | ◄ Auto ► |
| Font | |
| Colors | |
| Opacities | |

Cancel          Set

Select    Operate    BACK Back    MENU Exit
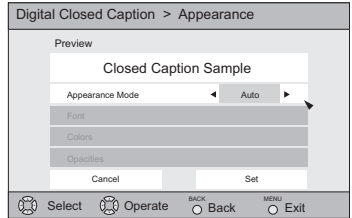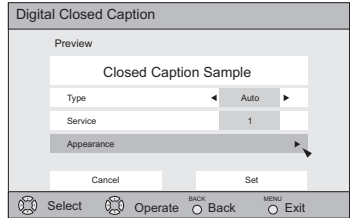
# Initial Setup Menus

## Digital Manual Setting

(🖐)     Press the MENU button

▲▼     To CLOSED CAPTION
◄►     To enter
▲▼     To Appearance
◄►     To select Manual for Appearance Mode
▲▼     To Font
◄►     To enter
▲▼     To select Font Size or Font Style
◄►     To select the setting you like

Font Size: Auto, Standard, Large or Small

Font Style: Auto, Serif Mono, Serif, SanSerif Mono, SanSerif, Casual, Cursive or Small Capital

▲▼     To Set
       Press the OK button to save

▲▼     To Colors
◄►     To enter
▲▼     To select Text, Edge or Background
◄►     To select the setting you like

      Auto, White, Black, Red, Green, Blue, Yellow, Magenta or Cyan

▲▼     To Set
(🖐)     Press the OK button to save

▲▼     To Opacities
◄►     To enter
▲▼     To select Text/Edge or Background
◄►     To select Auto, Transparent, Translucent, Solid or Flashing
▲▼     To Set
(🖐)     Press the OK button to save

▲▼     To Set
(🖐)     Press the OK button to save

▲▼     To Set
(🖐)     Press the OK button to save

(🖐)     Press the MENU button when finished

### Digital Closed Caption > Appearance (panel 1)

Preview

Closed Caption Sample

| | | |
|---|---|---|
| Appearance Mode | ◄ Manual ► | |
| Font | ► | |
| Colors | ► | |
| Opacities | ► | |
| Cancel | | Set |

Select   Operate   BACK ○ Back   MENU ○ Exit

### Digital Closed Caption > Appearance (panel 2)

Preview

Closed Caption Sample

| | | |
|---|---|---|
| Appearance M | Font Size | Standard |
| Font | Font Style | ◄ Auto ► |
| Colors | | |
| Opacities | Cancel | Set |
| Cancel | | Set |

Select   Operate   BACK ○ Back   MENU ○ Exit

### Digital Closed Caption > Appearance (panel 3)

Preview

Closed Caption Sample

| | | |
|---|---|---|
| Appearance M | Text | ◄ White ► |
| Font | Edge | White |
| Colors | Background | Black |
| Opacities | Cancel | Set |
| Cancel | | Set |

Select   Operate   BACK ○ Back   MENU ○ Exit

All fonts used for digital closed caption and digital menus are licensed from Monotype Imaging Inc.

**Notes:**

• Closed caption subtitles are usually found on closed caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.
• Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.
• Most broadcasts containing closed captioning will display a notice at the start of the program.
• To select the mode, press the C.C. button. See page 65.
• When ZOOM aspects like PANORAMA or CINEMA are selected, Digital Closed Captions may be cut off or distorted.

## Auto Shut Off

This function automatically shuts off your TV when there is no signal from the channel or no operation while the TV is on for 10 minutes.

Press the MENU button

▲▼     To AUTO SHUT OFF
◄►     To turn ON or OFF

Press the MENU button when finished

• If the channel that you have on does not receive a signal for more than one minute, the blinking text "NOT RECEIVING A SIGNAL AUTO SHUT OFF IN 9 MIN." appears on the screen, and starts the countdown. If no signal is being received within 10 minutes, the TV shuts itself off.

```
▥ ↱ ⏲ ☷  INITIAL SETUP
▲ PREVIOUS
ILLUMINATION              ◄ LOW ►
LANGUAGE           ENG. FRAN. ESP.
CLOSED CAPTION ►
AUTO SHUT OFF              ◄ OFF ►
XDS ID                     ◄ ON ►
▼ NEXT PAGE                   (3/5)
⬍ SELECT      ◄► OPERATE    MENU EXIT
```
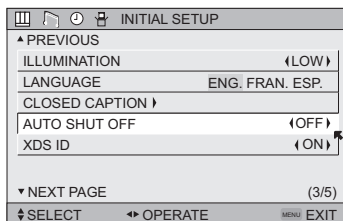
## XDS ID

XDS ID Display provides a channel's call letters, the network's name, and even a program name. The XDS ID information is provided by the broadcaster.

Press the MENU button

▲▼     To XDS ID
◄►     To turn ON or OFF

Press the MENU button when finished

```
▥ ↱ ⏲ ☷  INITIAL SETUP
▲ PREVIOUS
ILLUMINATION              ◄ LOW ►
LANGUAGE           ENG. FRAN. ESP.
CLOSED CAPTION ►
AUTO SHUT OFF              ◄ OFF ►
XDS ID                     ◄ ON ►
▼ NEXT PAGE                   (3/5)
⬍ SELECT      ◄► OPERATE    MENU EXIT
```
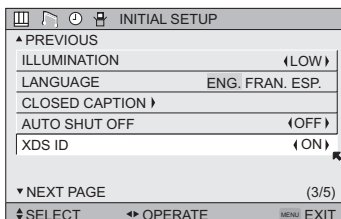
## Auto Tuner Setup

The auto tuner setup function is described on page 26 as the interactive plug in menu. If you need to run the auto tuner setup again, follow the steps below.

Press the MENU button

▲▼     To AUTO TUNER SETUP
◄►     To operate
◄►     To choose CABLE or AIR
▼     To START
◄►     To start the setup

```
☷  AUTO TUNER SETUP

TUNER MODE                  ◄ AIR ►



            START

⬍ SELECT      ◄► OPERATE    MENU EXIT
```
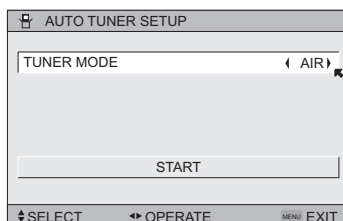
The auto tuner is finished when the message **PROGRAMMING OVER!** appears onscreen.

Press the Menu button when finished

# Initial Setup Menus

## Channel Summary

Channel summary allows you to customize the line-up of channels received by your TV. Regarding analog channels, you can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 181 channels. Regarding digital channels, the only channels that will appear are the ones that are broadcasting.

(hand icon)  Press the MENU button

▲▼  To CHANNEL SUMMARY

◄►  To operate

The Channel summary screen will now be displayed with the channels set to scan marked with an "√". Regarding analog channels, you can delete channels from the scan by removing the "√". If any channels were missed during auto tuner setup and you wish to add them, you may by placing an "√" next to the channel number.

• Digital channels cannot be added to the channel summary if the auto tuner setup did not find them.

▲▼ ◄►  To the SCAN column

(hand icon)  Press the OK button to include or delete from scan

(hand icon)  Press the MENU button when finished

**Note:**

• The number of a digital channel may change, depending on the time of some broadcastings. If this channel existed and now has disappeared, the lock channel or scanned channel mark by the channel summary for that channel will be cancelled.

### Analog Channels

| CHANNEL SUMMARY | | | | | | | |
|---|---|---|---|---|---|---|---|
| CHNO. | SCAN | ID | 🔒 | CHNO. | SCAN | ID | 🔒 |
| 01 | | | | 06 | ✓ | HBO | |
| 02 | ✓ | MTV | | 07 | ✓ | L | |
| 03 | | | | 08 | | | |
| 04 | ✓ | A&E | | 09 | ✓ | | |
| 05 | ✓ | E! | | 10 | | | |

◄♦► SELECT       OK OPERATE       MENU EXIT

### Digital Channels

| Channel Summary Digital | | | |
|---|---|---|---|
| CH No. | Scan | Station Name | 🔒 |
| D01 | ✓ | FOX | |
| D02 | ✓ | ABC | |
| D02 | ► | CNN | |
| D10-1 | ✓ | NBC | ✓ |
| D10-2 | | BOX | |
| D12345 | ✓ | NHK | |

Select       OK Operate       BACK Back       MENU Exit

How to set the channel label. **(This is only for analog broadcasting.)**

Press the MENU button

▲▼ To CHANNEL SUMMARY
◄► To operate
◄► To the ID column

Press the OK button to enter

◄► To select the character you want
▲▼ To move to the next space

*...continue to follow these directions for all four spaces*

Press the OK button to finish

*Your characters are now set*

Press the MENU button when finished

```
ID

CHANNEL 09        ▪ ▪ ▪ ▪

RESET

            PRESS OK TO FINISH

⬍ SELECT      ◄► OPERATE      MENU EXIT
```
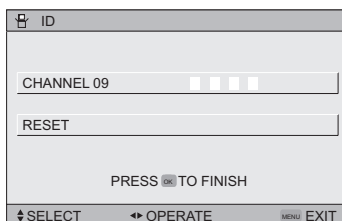
If you want to reset the characters you set:

Press the MENU button

▲▼ To CHANNEL SUMMARY
◄► To operate
◄► To the ID column

Press the OK button to enter

▲▼ To select RESET

Press the OK button to finish

*Your characters are now reset*

**Notes:**

- You can use characters for: Alphabet, numbers, marks and spaces.
- It is possible to set the maximum of 40 channel labels.
- If you try to set more than the 40 maximum, the message "MEMORY OVERFLOW" will appear.

You can block access to a channel by activating the channel lock.

Press the MENU button

▲▼ To CHANNEL SUMMARY

◄► To operate

▲▼ ◄► To the Lock Column ( 🔒 )

Press the ZERO button to lock or unlock that channel

Press the MENU button when finished

# Initial Setup Menus

## Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

To watch a channel that you have locked, enter the Lock Code using the 10 key pad.
If the wrong code is entered, the message "INVALID LOCK CODE!" will flash on the screen.

The channel cannot be accessed until the correct code is entered.

> THIS CHANNEL IS LOCKED BY CHANNEL GUARD.
> PLEASE ENTER LOCK CODE BY 10 KEY PAD TO UNLOCK IT.
>
> NO. - - - -

**Notes:**

• Once a channel has been unlocked, it will remain unlocked until the television is turned off.
• See also "Set Lock Code", page 46.

## V-Chip

Your TV is equipped with V-Chip technology which enables you to block channels or content that you feel to be inappropriate for children, based on US and Canada rating guidelines. V-Chip has no effect on video signals from DVD discs or Camcorder connection.

> **Note:** Some programs, and movies are broadcast without a ratings signal. Even if you set up V-CHIP ratings limits, these programs will not be blocked. See page 41 for information on how to block unrated programs.
>
> **Note (for Canadian viewers):** The V-Chip function is based on specifications designed for the United States and therefore may not work properly in Canada.

You can customize the V-Chip settings of your television to match your personal tastes. The V-Chip menu below is the starting point for your V-Chip settings

You can use US V-Chip settings (for programming broadcast from the United States), Canadian V-Chip settings (for programming broadcast from Canada), and movie ratings. You may use any or all of the settings (US V-Chip, Canada V-Chip, Movie ratings). Descriptions for setting each of the three V-Chip formats appear in the next six pages along with descriptions of the rating categories.

To access the rating categories:

Press the MENU button

▲▼ To V-CHIP
◄► To operate (Lock icon 🔒 will appear)

Press ZERO to access the V-Chip menu

◄► To turn V-Chip ON or OFF (V-Chip must be turned ON for rating settings to operate)

▲▼ To move to SET US TV RATINGS, SET MOVIE RATINGS, or SET CANADIAN RATINGS (see following pages for descriptions of each item)

| 🔒 V-CHIP | |
|---|---|
| V-CHIP | ◄OFF► |
| SET US TV RATINGS ► | |
| SET MOVIE RATINGS ► | |
| SET CANADIAN RATINGS ENG ► | |
| SET CANADIAN RATINGS FRE ► | |
| UNRATED | ◄VIEW► |

‡SELECT     ◄►OPERATE     MENU EXIT
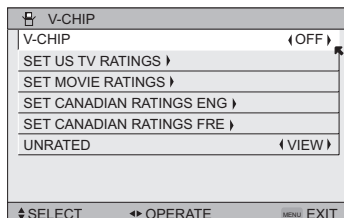
## Unrated Programs

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the "Unrated Programming" category.

Examples of Unrated programs:

- Emergency Bulletins
- News
- Public Service Announcements
- Sports
- Some Commercials
- Locally Originated Programming
- Political Programs
- Religious Programs
- Weather

**Note:**

- TV programs or movies that do not have rating signals will be blocked if the unrated category is set to BLOCK.

## Directions to Block Unrated Programs

You can block programs that are not rated.

Press the MENU button

▲▼     To V-CHIP

◄►     To operate (The lock icon 🔒 appears)

Press ZERO to access V-Chip setup options

▲▼     To UNRATED

◄►     To VIEW or BLOCK

Press MENU when done

| V-CHIP | |
|---|---|
| V-CHIP | ◄ OFF ► |
| SET US TV RATINGS ► | |
| SET MOVIE RATINGS ► | |
| SET CANADIAN RATINGS ENG ► | |
| SET CANADIAN RATINGS FRE ► | |
| UNRATED | ◄ VIEW ► |

‡ SELECT     ◄► OPERATE     MENU EXIT
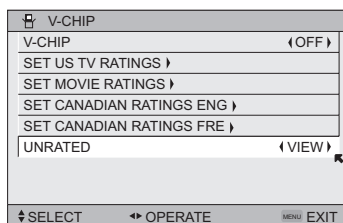
# Initial Setup Menus

## US V-Chip Ratings

**U.S. PARENTAL RATING SYSTEMS**

**Programs with the following ratings are appropriate for children.**

❒ **TV Y is Appropriate for All Children**
Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.

❒ **TV Y7 is for Older Children**
Most parents would find such programs suitable for children 7 and above. These programs may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

**Programs with the following ratings are designed for the entire audience.**

❒ **TV G stands for General Audience**
Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.

❒ **TV PG Parental Guidance Suggested**
Programs may contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.

❒ **TV 14 Parents Strongly Cautioned**
Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.

❒ **TV MA Mature Audiences Only**
These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

---

**Viewing Guidelines**

In addition to the ratings categories explained above, information on specific kinds of content are also supplied with the V-Chip rating. These types of content may also be blocked. The content types are:

- **V/FV** is for VIOLENCE/FANTASY VIOLENCE
- **S** stands for SEXUAL CONTENT
- **L** stands for strong LANGUAGE
- **D** stands for suggestive DIALOG

## Setting US V-Chip Ratings

Press the MENU button

To V-CHIP
To operate (lock icon 🔒 appears)

Press ZERO to access the V-Chip menu

◄► To turn V-Chip ON or OFF

▲▼ To move to SET US TV RATINGS

◄► To operate

| 🔒 V-CHIP | |
|---|---|
| V-CHIP | ◄ OFF ► |
| SET US TV RATINGS ► | |
| SET MOVIE RATINGS ► | |
| SET CANADIAN RATINGS ENG ► | |
| SET CANADIAN RATINGS FRE ► | |
| UNRATED | ◄ VIEW ► |

‡ SELECT    ◄► OPERATE    MENU EXIT
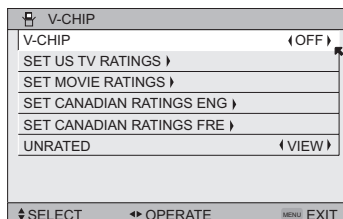
## Directions to set US V-Chip Ratings

Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the ▲▼ or ◄► to move the cursor to the correct location. Press OK to turn the locking feature on or off. An item is locked if the 🔒 icon appears instead of a "—".

*For example:* To block viewing of all TV 14 shows, move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.

▲▼ ◄► To the TV 14 Column

Press the OK button to lock

Press the MENU button when finished

🔒 SET US TV RATINGS

|  | TV MA | TV 14 | TV PG | TV G | TV Y7 | TV Y |
|---|---|---|---|---|---|---|
|  | 🔒 | 🔒 | – | – | – | – |
| V/FV | 🔒 | 🔒 | – |  | – |  |
| S | 🔒 | 🔒 | – |  |  |  |
| L | 🔒 | 🔒 | – |  |  |  |
| D |  | 🔒 | – |  |  |  |

◄‡► SELECT    OK OPERATE    MENU EXIT

### Note:

• If you want to change the setup, move the cursor to the top column and change the lock icon to "—" by pressing OK again. You may then select individual categories to block.
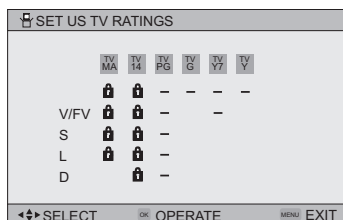
# Initial Setup Menus

## Movies Ratings

❒ **NR – Not Rated**
This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

**NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.**

❒ **G – General Audience**
In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

❒ **PG – Parental Guidance**
Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

❒ **PG-13 – Parents Strongly Cautioned**
Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.

❒ **R – Restricted**
These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.

❒ **NC-17 – No One Under 17**
These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.

❒ **X – No One under 18**
Inappropriate material for anyone under 18.

## Directions to set Movie (MPAA) Ratings

Press the MENU button

▲▼    To V-CHIP
◄►    To operate (Lock icon 🔒 appears)

Press ZERO to access V-Chip setup options

▲▼    To SET MOVIE RATINGS
◄►    To enter movies menu

*For example:* To block viewing of programming rated NC-17 shows, move the cursor to the NC-17 column and add a lock icon.  Once you've put a lock on the NC-17 column, X column is automatically locked.

▲▼ ◄►   To the NC-17 Column

Press the OK button to lock
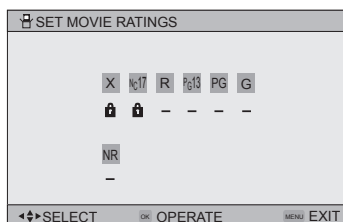
Press the MENU button to finish

• If you want to change the setup, move the cursor to the column and change the lock icon to "—" by pressing OK again.

```
🔒 SET MOVIE RATINGS


    X  NC17  R  PG13  PG   G

    🔒  🔒   –   –    –    –

    NR
    –

◄♦►SELECT      OK OPERATE      MENU EXIT
```

## Canadian V-Chip Ratings

❒ **E – Exempt**
Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.

❒ **C – Programming Intended for Children**
Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.

❒ **C8+ – Programming Intended for Children 8 and Over**
Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.

❒ **G – General Audience**
Programming will contain little violence and will be sensitive to themes which could affect younger children.

❒ **PG – Parental Guidance**
Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.

❒ **14+ – 14 Years and Older**
Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.

❒ **18+ – Adult**
Material intended for mature audiences only.

## Directions to set Canadian V-Chip Ratings

| | |
|---|---|
| (button) | Press the MENU button |
| ▲▼ | To V-CHIP |
| ◄► | To operate (lock icon 🔒 appears) |
| (button) | Press ZERO to access V-Chip setup options |
| ▲▼ | To SET CANADIAN RATINGS ENG (for English) |
| ◄► | To enter ratings menu |

***For example:*** To block viewing of programming rated 14+ shows, move the cursor to the 14+ column and add a lock icon. Once you've put a lock on the 14+ column, 18+ column is automatically locked.

| | |
|---|---|
| ◄► | To the 14+ Column |
| (button) | Press the OK button to lock |
| (button) | Press the MENU button to finish |

```
🔒 SET CANADIAN RATINGS ENG



    ☑  ☑  ☑  ☑  ☑  ☑
    🔒 🔒 —  —  —  —



◄► SELECT      OK OPERATE      MENU EXIT
```

**Notes:**

• If you want to change the setup, move the cursor to the column and change the lock icon to "—" by pressing OK again.

**45**
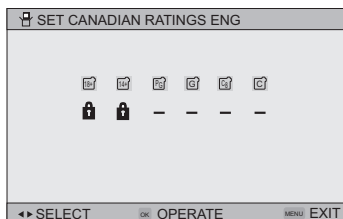
# Initial Setup Menus

## Set Lock Code

Channel guard and V-Chip settings are protected by a four-digit lock code. Your TV comes preset with a lock code of "0000". You may change the code to any four-digit number you wish. To change the lock code, follow the steps below.

| | | |
|---|---|---|
| 👆 | Press the MENU button | |
| ▲▼ | To SET LOCK CODE | |
| ◄► | To operate (lock icon 🔒 appears) | |
| 👆 | Press ZERO to access the lock code | |

The first digit will be highlighted

| | |
|---|---|
| ◄► | To select the number |
| ▲▼ | To move to the next digit |

Continue to follow these directions for all four numbers

👆 Press the OK button to finish (your lock code is now set)

👆 Press the Menu button when finished

```
🔒  SET LOCK CODE

LOCK CODE                    0000
                                 ◤


        PRESS 🆗 TO FINISH
⬍ SELECT      ◄► OPERATE      MENU EXIT
```
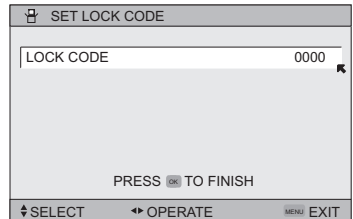
When a viewer attempts to watch a blocked channel, this message appears:

```
THIS PROGRAMMING EXCEEDS
YOUR RATING LIMITS.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
        NO. - - - -
```

The channel will remain blocked until the correct lock code is entered (see above for information on setting your lock code).

**Notes:**

- After a power interruption you must reset the lock code.
- Write your lock code number down and keep it hidden from potential viewers.
- If you forget the lock code, a new code may be set using the steps listed above.

# Initial Setup Menus

## Auto Demo

Auto Demo allows you to start the High Speed response Demonstration automatically or not.

👆      Press the MENU button

▲▼      To AUTO DEMO

◄►      To turn ON or OFF

👆      Press the MENU button when finished
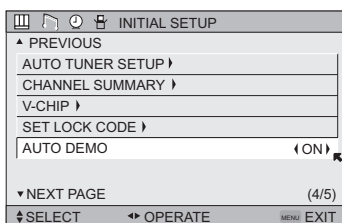
**Note:**

• This demo is set to ON by default until you turn it OFF in the main menu system.

```
📖 🔆 🕐 🔧  INITIAL SETUP
   ▲ PREVIOUS
   AUTO TUNER SETUP ▶
   CHANNEL SUMMARY ▶
   V-CHIP ▶
   SET LOCK CODE ▶
   AUTO DEMO                    ◄ ON ▶
   ▼ NEXT PAGE                   (4/5)
   ↕ SELECT      ◄► OPERATE   MENU EXIT
```

## Digital Setup

Use this function when you are receiving a digital broadcast.

👆      Press the MENU button

▲▼      To DIGITAL SETUP

◄►      To enter

         *The onscreen will appear*

**Notes:**

• Software Update will only appear when the USB memory is inserted into the USB connector.

• If you are watching an analog channel, you can still access the digital setup menu at anytime, while you are doing this, the background screen will turn blank. In this case, the tuner will switch to digital, since you are accessing the digital setup menu.

```
Digital Setup

   Antenna Level                    ▶
   Digital Sound            PCM
   Software Version                 ▶


   Software Update                  ▶

🎮 Select  🎮 Operate  BACK○ Back  MENU○ Exit
```
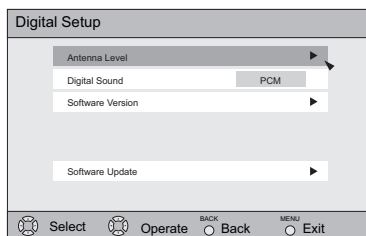
## Antenna Level

Confirms the present antenna level.

👆      Press the MENU button

▲▼      To DIGITAL SETUP

◄►      To enter

▲▼      To Antenna Level

◄►      To enter

         *The onscreen will appear*

```
 〰📡〰        Antenna Level

 75 ▬▬▬▬▬▬▬▬▬▬▬▬

 BACK          MENU
 ○ Back        ○ Exit
```
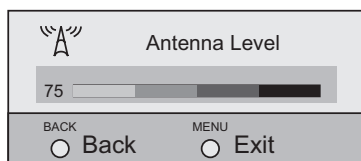
# Initial Setup Menus

## Digital Sound

You can select the optical digital sound output, either PCM or DOLBY DIGITAL when your TV is connected to an amplifier that has DOLBY DIGITAL decoder.  If you select DOLBY DIGITAL, you can enjoy listening in 5.1ch sound when watching digital broadcasts.

| | |
|---|---|
| 🔲 | Press the MENU button |
| ▲▼ | To DIGITAL SETUP |
| ◀▶ | To enter |
| ▲▼ | To Digital Sound |
| ◀▶ | To select PCM or DOLBY DIGITAL |
| 🔲 | Press the MENU button when finished |

**Notes:**
• If your amplifier does not have DOLBY DIGITAL decoder, select PCM.  If you don't select PCM, it cannot output the sound from the speakers.
• For connecting an amplifier using the optical output, see page 20.

▯▯ **DOLBY**
**D I G I T A L**

Manufactured under license from Dolby Laboratories.  "Dolby", and the double-D symbol are trademarks of Dolby Laboratories.

## Software Version

You can confirm the Software Version.

| | |
|---|---|
| 🔲 | Press the MENU button |
| ▲▼ | To DIGITAL SETUP |
| ◀▶ | To enter |
| ▲▼ | To Software Version |
| ◀▶ | To enter |
| 🔲 | Press the OK button when you are finished confirming your software version |
| 🔲 | Press the MENU button when finished |

## Software Update

At first, connect the USB memory into the USB connector.  This function will appear only when the USB memory is inserted into the USB connector.

| | |
|---|---|
| 🖐 | Press the MENU button |
| ▲▼ | To DIGITAL SETUP |
| ◀▶ | To enter |
| ▲▼ | To Software Update |
| ◀▶ | To enter |
| ▲▼ | Checks if it needs an update or not |
| 🖐 | Press the MENU button when finished |

## V5 INPUT

The Video-5 input allows you to choose the signal type you wish to receive that you have connected to Video-5 Input.

| | |
|---|---|
| 🖐 | Press the MENU button |
| ▲▼ | To V5 INPUT |
| ◀▶ | To enter |
| ▲▼ | To select HDMI, PC or Composite |
| 🖐 | Press the OK button to decide |

| V5 INPUT |
|---|
| HDMI |
| PC |
| COMPOSITE |
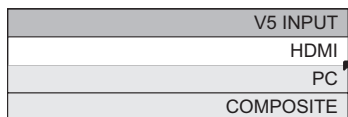
# Picture Adjust Menus

## Picture Settings

These settings allow you to change and adjust the way the picture appears on your television.

**TINT**
Tint allows you to adjust the levels of red and green in your TV picture.
**COLOR**
The color function lets you make all the colors in the TV picture appear either more vivid or subtle.
**PICTURE**
Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.
**BRIGHT**
You can adjust the overall brightness of the TV picture with the Bright control.
**DETAIL**
The Detail feature adjusts the level of fine detail displayed in the picture.
**ENERGY SAVER MODE**
The energy saver mode adjusts the level of brightness on the TV screen.

## Adjust the Picture Settings

Press the MENU button

▲▼     To TINT, COLOR, PICTURE, BRIGHT, DETAIL or ENERGY SAVER MODE

◄►     To enter

```
TINT            +02
```
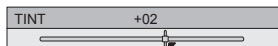
◄►     To adjust the setting
▲▼     To back to the picture main menu
▲▼     To move to the next setting

Press the MENU button when finished

| PICTURE ADJUST | | |
|---|---|---|
| ▲ PREVIOUS | STANDARD | |
| TINT | ◄ 00 ► | |
| COLOR | ◄ 00 ► | |
| PICTURE | ◄ 00 ► | |
| BRIGHT | ◄ 00 ► | |
| DETAIL | ◄ 00 ► | |
| ENERGY SAVER MODE ► | | |
| ▼ NEXT PAGE | | (1/3) |
| ↕ SELECT | ◄► OPERATE | MENU EXIT |
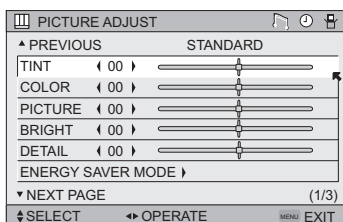
**Notes:**
- DETAIL menu cannot be selected when the Video Status mode is THEATER.
- There are six video status settings: Dynamic, Standard, Theater, Game, Memory-1 and Memory-2. Each video status setting has a separate memory for HD (1080i/1080p/720p) and SD (480p/480i) video signal. Each video status can be chosen along with your favorite picture settings (Tint, Color, Picture, Bright, Detail, etc.) See page 65 for details.

## Color Temperature

You can decide how strong or dull the colors appear on the TV screen.

Press the MENU button

▲▼     To COLOR TEMPERATURE
◄►     To enter
▲▼     To set LOW or HIGH

Press the MENU button when finished

| COLOR TEMPERATURE |
|---|
| LOW |
| HIGH |
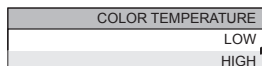
## Color Management

This TV supports the COLOR MANAGEMENT function to ensure dull colors are compensated to produce natural hues.

| | |
|---|---|
| (button) | Press the MENU button |
| ▲▼ | To COLOR MANAGEMENT |
| ◄► | To enter |
| ▲▼ | To turn ON or OFF |
| (button) | Press the MENU button when finished |

COLOR MANAGEMENT
ON
OFF
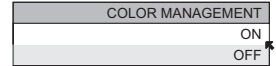
## Dynamic Gamma

JVC's Dynamic Gamma Circuitry (DGC) makes it easier to see dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas. DGC is turned on, DGC analyzes and adjusts the total level of picture brightness balance, especially in dark areas where the level of grayscale is often lost, turning completely to black DGC automatically enhances the detail in these dark areas providing a more dynamic image with finer detail, so the optimum picture settings are automatically set for each picture. Normally use with DGC on.

| | |
|---|---|
| (button) | Press the MENU button |
| ▲▼ | To DYNAMIC GAMMA |
| ◄► | To enter |
| ▲▼ | To turn ON or OFF |
| (button) | Press the MENU button when finished |

DYNAMIC GAMMA
ON
OFF
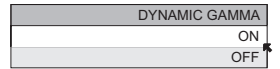
## Smart Picture

Smart Picture detects the APL (Average Picture Level) and adjusts the level of brightness on the TV screen suitable for what you are watching.

| | |
|---|---|
| (button) | Press the MENU button |
| ▲▼ | To SMART PICTURE |
| ◄► | To enter |
| ▲▼ | To turn ON or OFF |
| (button) | Press the MENU button when finished |

SMART PICTURE
ON
OFF
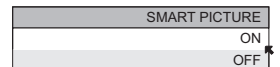
**Note:**

• When you have "DYNAMIC" selected in the "VIDEO STATUS", Smart Picture is not selected.

# Picture Adjust Menus

## Natural Cinema

Natural cinema corrects the problem of blurred edges which may occur when viewing a program originally shot on film (such as motion pictures) or animation. If you notice blurring at the edges of these programs, choose NATURAL CINEMA and set it to AUTO. Natural Cinema helps correct conversion errors that occur when film, which is shot at 24 frames-per-second, is broadcast at the television rate of 30 frames-per-second.

| | |
|---|---|
| Press the MENU button | |
| ▲▼ | To NATURAL CINEMA |
| ◄► | To enter |
| ▲▼ | To select the mode AUTO, ON or OFF |
| Press the MENU button when finished | |

| NATURAL CINEMA |
|---|
| AUTO |
| ON |
| OFF |

**Notes:**
• When you are receiving a 1080p signal, Natural Cinema cannot be selected.
• The natural cinema mode is automatically set to "AUTO" in the following cases:
   - Turning on or off
   - Changing the channel or input mode
• If you are in PC mode, Natural Cinema cannot be used.
• Natural Cinema is only applied for SD 480i and HD 1080i signals.

## Digital VNR

This function can be selected to change the effect of Digital VNR (Video Noise Reduction).

Press the MENU button

▲▼ To DIGITAL VNR
◄► To enter
▲▼ To select the effect you like.

| DIGITAL VNR |
|---|
| AUTO |
| MIN |
| MAX |
| OFF |

**AUTO:** adjusts the effect of VNR automatically.
**MIN:** adjusts the effect of VNR to minimum.
**MAX:** adjusts the effect of VNR to maximum.
**OFF:** turns the effect of VNR off.

Press the MENU button when finished

**Notes:**
• If it is in PC, Digital VNR will not be displayed.
• When you are receiving a 1080p signal, Digital VNR cannot be selected.

# Picture Adjust Menus

## MPEG NR

This function effects the block noise removal and mosquito NR (Noise Reduction) simultaneously.

| | | |
|---|---|---|
| 🖐 | Press the MENU button | |
| ▲▼ | To MPEG NR | |
| ◄► | To enter | |
| ▲▼ | To turn ON or OFF | |

🖐    Press the MENU button when finished
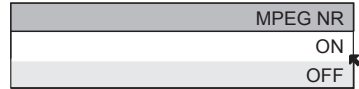
| MPEG NR |
|---|
| ON |
| OFF |

**Notes:**
• When you are receiving digital channels, block noise removal will have no effect.
• When you are receiving a 1080p signal, MPEG NR cannot be selected.

## Smart Sensor

This function automatically adjusts the brightness on your TV according to the amount of light in the room.

🖐    Press the MENU button

▲▼    To SMART SENSOR
◄►    To enter
▲▼    To turn ON or OFF

🖐    Press the MENU button when finished
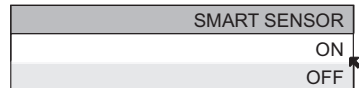
| SMART SENSOR |
|---|
| ON |
| OFF |

## Sensor Effect

With Sensor Effect ON, a "leaf" icon will appear on your TV screen when Smart Sensor brightness adjustment occurs.  The leaf icon will appear a maximum of 6 leaves.  With each appearance indicates the level of ambient light is getting darker.

🖐    Press the MENU button

▲▼    To SENSOR EFFECT
◄►    To turn ON or OFF

🖐    Press the MENU button when finished

| SENSOR EFFECT | |
|---|---|
| LOW 🍃🍃🍃🍃🍃 | HIGH |

**Note:**
• The leaves of Sensor Effect cannot be displayed when Closed Caption is ON.

# Picture Adjust Menus

## Theater Pro II

It is possible to use Theater Pro II menu only when the Video Status mode is set to THEATER.
It adjusts the detailed picture settings.

| Theater Pro II Menu | Settings |
|---|---|
| DSD Detail | Shows the edge of the picture clearly |
| H.SHARP | Emphasizes the edge of the picture horizontally |
| V.SHARP | Emphasizes the edge of the picture vertically |
| DSD NOISE CONTROL | Reduces picture noise |
| COLOR TEMPERATURE (RED, BLUE, GREEN) | Adjusts the screen (red, blue or green) color |
| COLOR BALANCE | Adjust the blue color naturally |
| *COLOR MNGMT. (RED, YELLOW, GREEN, CYAN) AXIS | Select a corrected color |
| *COLOR MNGMT. (RED, YELLOW, GREEN, CYAN) TINT | Adjusts the tints of (red, yellow, green or cyan) |
| *COLOR MNGMT. (RED, YELLOW, GREEN, CYAN) COLOR | Adjusts the color of (red, yellow, green or cyan) |
| *COLOR:BRIGHT AREA | Adjusts the picture color of the bright areas |
| *COLOR:DARK AREA | Adjusts the picture color of the dark areas |

*These Theater Pro II menus cannot be selected when Color Management is OFF. See page 51.*

Press the MENU button

▲▼     To THEATER PRO II
◀▶     To enter
▲▼     Select a Theater Pro II menu
◀▶     To adjust the settings

Press the MENU button when finished

## Reset

Reset resets all picture adjustments except for Natural Cinema at once to the default settings.

Press the MENU button

▲▼     To RESET

Press the OK button

*The onscreen menu disappears for a moment, and then the settings are reset to the default setting for all the picture adjustments except for NATURAL CINEMA.*

Press the MENU button when finished

| PICTURE ADJUST | |
|---|---|
| ▲ PREVIOUS | STANDARD |
| DIGITAL VNR ▶ | AUTO |
| MPEG NR ▶ | ON |
| SMART SENSOR ▶ | OFF |
| SENSOR EFFECT | ◀ OFF ▶ |
| THEATER PRO II ▶ | |
| RESET | |
| ▼ NEXT PAGE | (3/3) |
| ⬍ SELECT  ◀▶ OPERATE | MENU EXIT |

# Sound Adjust Menus

## Sound Settings

These settings allow you to change and adjust the sound on your television. Four sound settings (MaxxBass, MaxxTreble, MaxxStereo and MaxxVolume) are referred as "MaxxAudio". See page 64.

**MaxxBass –** Compensates for low frequencies and widens the frequency band.

**MaxxTreble –** Compensates for high frequencies and widens the frequency band.

**MaxxStereo –** Expands the stereo sound naturally.

**MaxxVolume –** Maintains a uniform sound volume even if the sound becomes too loud all of the sudden (during commercial breaks, etc.).

**BALANCE –** Adjust the level of sound between the TV's left and right speakers with the balance setting.

## Adjust the Sound Settings

| | |
|---|---|
| 🖑 | Press the MENU button |
| ▲▼ | To MaxxBass, MaxxTreble, MaxxStereo, MaxxVolume or BALANCE |
| ◄ ► | To adjust the setting |
| ▲▼ | To move to the next setting |
| 🖑 | Press the MENU button when finished |

```
🎞 🗋 SOUND ADJUST              🕐 🔋
▲ PREVIOUS              HIGH
MaxxBass    ◄ 05 ► ━━━━━━╪━━━
MaxxTreble  ◄ 05 ► ━━━━━━╪━━━
MaxxStereo  ◄ 05 ► ━━━━━━╪━━━
MaxxVolume              ◄OFF►
BALANCE     ◄ 00 ► ━━━━╪━━━━━

▼ NEXT PAGE                  (1/2)
↕ SELECT    ◄► OPERATE   MENU EXIT
```
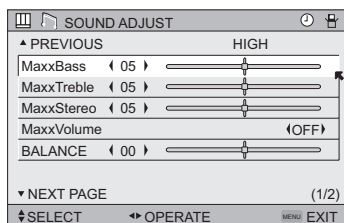
**Note:**
• You can reset all sound adjustments you set at once as the default setting when you select reset.

## Turn On Volume

Turn On Volume allows you to set the volume level when you turn the TV on.

| | |
|---|---|
| 🖑 | Press the MENU button |
| ▲▼ | To TURN ON VOLUME |
| ◄► | To set |

CURRENT ⟷ 00 ⟷ 01 ⟷ 02 ⟷ 03 ⟵ – – – – – – ⟶ 48 ⟷ 49 ⟷ 50

🖑  Press the MENU button to finish

## Volume Limit

Volume Limit allows you to set the maximum volume level.

| | |
|---|---|
| 🖑 | Press the MENU button |
| ▲▼ | To VOLUME LIMIT |
| ◄► | To set the maximum volume level |

00 ⟷ 01 ⟷ 02 ⟷ 03 ⟵ – – – – – – ⟶ 48 ⟷ 49 ⟷ 50

🖑  Press the MENU button to finish

## Reset

Reset resets all Sound Adjustments at once to the default settings. TURN ON VOLUME resets to CURRENT and VOLUME LIMIT resets to 50. See page 54 on how to use reset.

**55**

# Clock/Timers Menus

## Set Clock

The set clock function is described on page 25 as the interactive plug in menu. You can choose to set the clock automatically or manually. If you need to set the clock again, follow the steps below.

(MENU)    Press the MENU button

▲▼    To SET CLOCK
◀▶    To enter

**When you set the clock automatically, choose AUTO by pressing the ◀ or ▶ arrows.**

▲▼    To TIME ZONE
◀▶    To select your time zone:
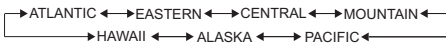
     ➤ATLANTIC ◀━▶ EASTERN ◀━▶ CENTRAL ◀━▶ MOUNTAIN ◀
        HAWAII ◀━▶ ALASKA ◀━▶ PACIFIC ◀

▲▼    To D.S.T. (daylight savings time)
◀▶    To turn D.S.T. ON or OFF

(MENU)    Press OK to finish

(MENU)    Press the MENU button when finished

| 🕐 SET CLOCK | |
|---|---|
| MODE | ◀ AUTO ▶ |
| TIME | -- : -- -- |
| TIME ZONE | ◀ ATLANTIC ▶ |
| D.S.T | ◀ ON ▶ |
| PRESS OK TO FINISH | |
| ⬍ SELECT  ↔ OPERATE | MENU EXIT |
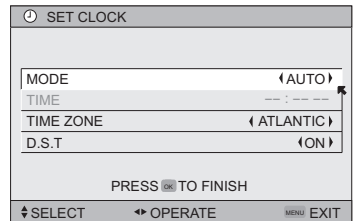
**When you set the clock manually, choose MANUAL by pressing the ◀ or ▶ arrows.**

▲▼    To move to the hours
◀▶    To set the hours
▲▼    To move to minutes
◀▶    To set the minutes
▲▼    To TIME ZONE
◀▶    To select your time zone:

     ➤ATLANTIC ◀━▶ EASTERN ◀━▶ CENTRAL ◀━▶ MOUNTAIN ◀
        HAWAII ◀━▶ ALASKA ◀━▶ PACIFIC ◀
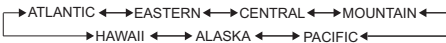
▲▼    To D.S.T. (daylight savings time)
◀▶    To turn D.S.T. ON or OFF
(OK)    Press OK to start clock

> THANK YOU !!
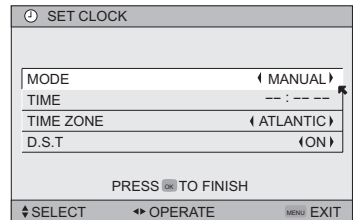
(MENU)    Press the MENU button when finished

| 🕐 SET CLOCK | |
|---|---|
| MODE | ◀ MANUAL ▶ |
| TIME | -- : -- -- |
| TIME ZONE | ◀ ATLANTIC ▶ |
| D.S.T | ◀ ON ▶ |
| PRESS OK TO FINISH | |
| ⬍ SELECT  ↔ OPERATE | MENU EXIT |

**Notes:**

• D.S.T. can be used when it is set to ON in the SET CLOCK menu.
• Only when the MODE is set to AUTO, the Daylight Saving Time feature automatically adjusts your TV's clock for Daylight Saving.
• The real time and D.S.T. may not be set correctly depending on the broadcasting signal and receiving conditions.  In this case, set your clock manually and turn D.S.T. to OFF.
• You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

## On/Off Timer

The on/off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.

| | | |
|---|---|---|
| 🖱 | Press the MENU button | |
| ▲▼ | To ON/OFF TIMER | |
| ◄► | To enter (begins with ON TIME) | |
| ◄► | To set the hour (AM/PM) you want the TV to turn on | |
| ▲▼ | To move to minutes | |
| ◄► | To set the minutes | |
| ▲▼ | To accept ON TIME and move to OFF TIME (the time the TV will turn off). Set the OFF TIME the same way as ON TIME | |
| ▲▼ | To accept OFF TIME and move to CHANNEL | |
| ◄► | To select channel | |
| ▲▼ | To ON VOLUME | |
| ◄► | To set the volume level | |
| ▲▼ | To move to MODE | |
| ◄► | To select ONCE or EVERYDAY | |
| ▲▼ | To ON/OFF TIMER | |
| ◄► | Choose YES to accept the timer setting, choose NO if you don't wish to accept | |
| 🖱 | Press the OK button to finish | |
| 🖱 | Press the MENU button to exit the menu | |

On-screen menu:

| 🕐 ON/OFF TIMER | |
|---|---|
| ON TIME | 7:00 PM |
| OFF TIME | 10:00 PM |
| CHANNEL | 03 |
| ON VOLUME | CURRENT |
| MODE | ◄ EVERYDAY ► |
| ON/OFF TIMER | ◄ NO ► |
| PRESS OK TO FINISH | |
| ↕ SELECT     ◄► OPERATE     MENU EXIT | |

**Notes:**

• The on/off timer cannot be set to locked or guarded channels in the channel summary menu.

• In order for the on/off timer to work, the clock must be set.

• After a power interruption, the timer settings must be reset.

• If your clock is not set, "PLEASE SET CLOCK FIRST !!" will appear on the screen.  See Set Clock (choose MANUAL) on page 56 to set the clock.

# Button Functions

## Power

Turns the TV on or off.

　　Press the POWER button

## Number Buttons - 10Key Pad

Use the number buttons on the remote control to move directly to a specific channel. For example, to move to channel 12:

　　1 (One)

　　2 (Two)

## Tune

Lets you decide the input channel and select it. After you press the number buttons on the remote, press the TUNE button. For example, to move to channel 12:

　　1 (One)

　　2 (Two)

　　Press the TUNE button

## Sub Channel

The main channel sometimes has minor channels (Sub Channels). By using the SUB CH button, you can select a sub channel easily.

At first, select TV or STB mode to use the Sub channel function. See page 68.

### To watch sub channels

For example, to move to sub channel 123-45:

　　Press 1, 2 and 3 in order

　　Press the SUB CH button

　　Press 4 and 5 in order

　　Press the TUNE button

**Note:**

• If there are more than 2 major channels, select the digital channel by using the ▲▼ buttons and then press the OK button.

## Channel +/–

Use these buttons to move up or down all the available channels your TV is able to receive.
To move rapidly through the channels using JVC's **Hyperscan** feature, press and hold CH+ or CH–.

## Volume +/–

Use these buttons to raise or lower the TV's volume level. The maximum is the level you set in Volume Limit. See page 55.

## Muting

The MUTING button instantly turns the volume down completely when you press it. Press MUTING and the volume level will instantly go to zero. To restore the volume to its previous level, press MUTING again.

## D/A (Digital/Analog)

The D/A button changes the analog and digital channel. Digital channels have a "D" in front of the channel number.

Press the D/A button

By every press of the D/A button, you can switch between analog and digital channels.

### To watch digital channels

For example, to move to channel D23:

Press 2 (Two)

Press 3 (Three)

Press the TUNE button

## Input

Selects the signal input source for the television: VIDEO-1, 2, 3, 4 or 5 for video devices like VCRs, DVD players or camcorders.

Press the V1, V2, V3, V4 or V5 button

**Notes:**

- When you return to TV mode, press the RETURN +/TV button or direct 10 key pad or CHANNEL +/– button.
- You can also access by pressing the INPUT button on the side of the TV instead of the remote control.
- VIDEO-5 (V5) can be used for HDMI, PC and Composite Input. You can select the input in V5 INPUT in INITIAL SETUP menu.

**59**

# Button Functions

## Return +/TV

The RETURN+/TV button has three functions:

**Return** - Returns to the channel viewed just before the channel currently onscreen.

**Return+** - Lets you program a specific channel to return to while scanning through the channels using the CH+ and CH– buttons.

**TV** - Returns to the TV mode.

Press the RETURN+/TV and hold for three seconds

> RETURN CHANNEL
> PROGRAMMED!

The channel currently active has been programmed as your return+ channel. Now scan through the channels using the CHANNEL+/– buttons.

Press the RETURN+/TV

You will return to your programmed channel.

- To cancel your return+ channel, press and hold the RETURN+/TV button for three seconds. The message "RETURN CHANNEL CANCELLED!" will appear.
- Return+ works only with the Channel+/– buttons. Pressing any number key will cancel return+.

## Light

All remote control buttons are illuminated, except for the Light button.  Press the LIGHT button to turn the illumination on for 5 seconds.

## Menu

The MENU button allows you to access JVC's onscreen menu system. Press MENU to activate the onscreen menu system.  When a menu is displayed, press the MENU button to exit.

- See individual topics like "Sound Adjust" for specific information on using menus.

## OK

This button confirms your selection when you are in one of the onscreen menus.

## Back

This button allows you to go back in the menu to change a selection or correct a mistake.

## Favorite

The Favorite button allows you to select your favorite channels easily.  First, you must register the channels that you like.  See how to register below.

Press the FAVORITE button
   *The favorite channel list will appear.*

▲▼   To select the channel you want to watch

Press the OK button
   *It will change to the channel you have selected.*

| FAVORITE | |
|---|---|
| ▲ PREVIOUS | |
| 101 | CBS |
| 102 | FOX |
| D103 | PBS2 |
| < | > |
| D107 | HBO |
| 8 | ABC |
| ▼ NEXT | |

## Register the favorite channel

Press the channel number you want to register

   *The channel program will change.*

Press the FAVORITE button for three seconds
   *The channel will be registered in the favorite channel list.*

**Notes:**

• Both analog and digital channels can be registered.  The digital channels have a "D" in front of the channel number.
• The maximum number of channels you can register is 24.
• If you have registered the maximum number of channels, and try to register more channels, the oldest channel you registered will be deleted.
• Sub channels cannot be registered.
• The newest channel you registered will appear at the top of the list.

## Delete the favorite channel

Press the FAVORITE button
   *The favorite channel list will appear.*

▲▼   To select the channel you want to delete
◀▶   To enter
Press the FAVORITE button
   *The channel was deleted.*

**Note:**

• Before pressing the FAVORITE button when you are finished, press the ◀▶ button again, and you can return to the deleted channel.

# Button Functions

## Aspect

This feature will help you adjust the picture you are watching to give you the best possible picture quality.

### Aspect Ratios

**PANORAMA** - With this ratio a normal 4:3 aspect picture is stretched to fit the dimensions of the 16:9 aspect screen.
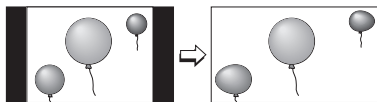
**CINEMA** - This ratio "zooms in" on the center part of a 4:3 aspect picture, blowing it up to fill the 16:9 screen.

**FULL** - This is the ratio to use when watching 16:9 High-Definition broadcasts.
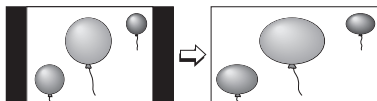
**PANORAMA ZOOM** - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black side bars.
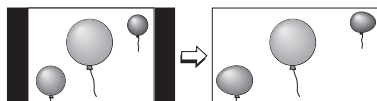
**CINEMA ZOOM** - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black surrounding bars.

**FULL NATIVE** - This ratio displays 100% of the ratio. Normally, all aspects except for Full Native display about 95%.
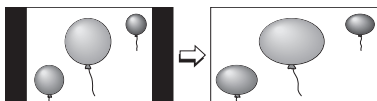
**REGULAR** - The regular ratio is used when you want to watch a 4:3 broadcast or recorded program without modifying the original picture to fit the dimensions of your 16:9 screen. The 4:3 picture will fill the screen from top to bottom, while black bars will appear to fill up the remaining space along the picture's sides. The 4:3 picture will be centered within the boundaries of the 16:9 screen.
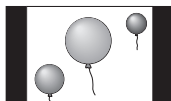
**SLIM** - This aspect mode shrinks the screen of 16:9 to 4:3. There are some programming that is already stretched by mistake at broadcasting companies, so this mode corrects it. Black side bars will appear.
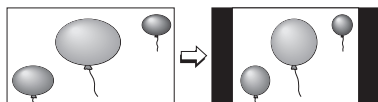
### Aspect Ratios in PC Mode

**REGULAR** - This is the original aspect mode.
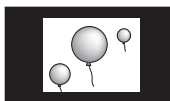
**FULL** - This aspect mode stretches the image to fit the dimensions of the 16:9 aspect screen.
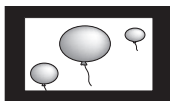
# Button Functions

## Aspect Ratios (Continued)

Press the ASPECT button

- *By pressing the ASPECT button, you can change the size.*

When you change the aspect ratios, it is different from their broadcast or recorded program.

| SD (480i, 480p) NTSC | HD (720p) ATSC (480i, 480p, 720p) | HD (1080i) ATSC (1080i) | PC (XGA, VGA) |
|---|---|---|---|
| ASPECT | ASPECT | ASPECT | ASPECT |
| PANORAMA | PANORAMA ZOOM | PANORAMA ZOOM | FULL |
| CINEMA | CINEMA ZOOM | CINEMA ZOOM | REGULAR |
| FULL | FULL | FULL | |
| REGULAR | SLIM | FULL NATIVE | |
| | | SLIM | |

**Notes:**

- You can also choose the size by pressing the ▲▼ buttons.
- When you change the aspect ratio or signal, reset the picture position to center.
- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has VIDEO STATUS and ASPECT menus. Choose ASPECT by pressing Menu ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons.
- SLIM can only be displayed when the signal is ATSC (480i, 480p, 720p, 1080i) or HD (720p, 1080i).
- If the television receives a 16:9 signal from your HDMI device, the aspect mode will turn to FULL automatically. If the television receives a 4:3 signal from your HDMI device when you are in FULL aspect mode, it will return to REGULAR aspect mode. If you change the aspect mode after the television changed it to FULL automatically, the television will change to the aspect mode you choose. It also turns to FULL automatically when the TV receives an HD (1080i or 720p) signal.
- When you are receiving an HDMI 1080p signal in FULL NATIVE mode, you are unable to change the aspect mode.

## Guide

You can view the program information from the GUIDE.

**Notes:**
- The GUIDE function will work when you are receiving digital program only.
- The GUIDE will not show the correct time and date if you have not performed the set clock function on your television. See page 56.
- When the program information is not being broadcasted, it will not show the correct information.

# Button Functions

## Sound

By pressing the SOUND button, you can change the sound mode of the MaxxAudio function. The sound mode has four settings (HIGH, MID, LOW and OFF).

Press the SOUND button

▲▼　　To MaxxAudio

◄►　　To choose HIGH, MID, LOW or OFF

Press the MENU when finished

```
SOUND EFFECT
MaxxAudio                        ◄ MID ►
                                     ◤
◄►OPERATE                    MENU EXIT
```

**MAXX** Audio ►  ®

MaxxAudio is a registered trademark of Waves Audio Ltd. in the USA, Japan and other countries.

**Note:**
• To set MaxxAudio (MaxxBass, MaxxTreble, MaxxStereo and MaxxVolume) individually for each sound mode, see page 55.

## ML/MTS

MTS technology allows several audio signals to be broadcast in analog at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a second audio program (SAP).

At first, select TV mode to use the multi-language/MTS function.

Press the ML/MTS button

*By every press of the ML/MTS button, you change the mode*

```
                              MTS
ON AIR                     STEREO
ON AIR                        SAP
                             MONO
```

**Notes:**

• When you are receiving a digital broadcast, if there are other languages, you can change the language by pressing the ML/MTS button.

• Keep the TV in stereo mode to get the best sound quality. The sound will work in stereo mode even if a certain broadcast is in mono sound only.

• Choose the mono setting to reduce excessive noise on a certain channel or broadcast.

• Selecting SAP will allow you to hear an alternative soundtrack, if one is available.

• MTS unavailable if your television's Input source is in VIDEO-1, 2, 3, 4 or 5 mode, as described on page 59.

• ML/MTS will not work when you are using the HDMI.

• You can also change the mode by pressing the ▲▼ buttons.

## Video Status

The VIDEO STATUS button gives you a choice of TV picture display settings, including a display of your own preferences. Every input (TV, V1 - V5) can use the Video Status Mode.

**STANDARD** - Resets the picture display to the factory settings.
**DYNAMIC** - Gives a vivid picture with better contrast when viewing in a brightly lit room.
**THEATER** - Gives a rich, film-like look to video when viewing in a dimly lit room.
**GAME** - Used for when you are playing video games connected to your TV.

| VIDEO STATUS |
| --- |
| STANDARD |
| DYNAMIC |
| THEATER |
| GAME |
| MEMORY-1 |
| MEMORY-2 |

**MEMORY-1, MEMORY-2** - Default setting is the same as STANDARD mode.

Press the VIDEO STATUS button
*By every press of the VIDEO STATUS button, you change the mode.*

**Notes:**

• You can also change the mode by pressing the ▲▼ buttons.
• Each mode is memorized for each input connected to the TV.
• You can also access the FRONT PANEL CONTROL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has VIDEO STATUS and ASPECT menus. Choose VIDEO STATUS by pressing MENU ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons.
• There are six video status settings: DYNAMIC, STANDARD, THEATER, GAME, MEMORY-1 and MEMORY-2. Each video status setting has a separate memory for HD (1080i/1080p/720p) and SD (480p/480i) video signal. Each video status can be chosen along with your favorite picture settings (Tint, Color, Picture, Bright, Detail, etc.)
  – When an HD signal is displayed: Your HD settings are recalled for the video status you are using.
  – When an SD signal is displayed: Your SD settings are recalled for the video status you are using.
  – The input you are using (Input-1, Input-2, etc.) does not affect the setting that is recalled, just the signal type.
  – This function considers PC input as an HD signal and TWIN screens as an SD signal.

## C.C. (Closed Caption)

Use the C.C. (Closed Caption) button to select the mode of closed caption.

At first, select TV, STB or VCR mode to use the closed caption function.

Press the C.C. button

| CLOSED CAPTION |
| --- |
| OFF |
| SMART CAPTION |
| ON |

**Notes:**
• SMART CAPTION will appear when you press the MUTING button only on channels where the broadcast contains closed captioning.
• When you select ON, it will be the mode selected in the Closed Caption Menu.
• when you set the caption/text mode.
• You can also change the mode by pressing the ▲▼ buttons.
• If you are in PC mode, C.C. cannot be used.

# Button Functions

## Sleep Timer

The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work for a total time of up to 180 minutes.

At first, select TV mode to use the sleep timer function.

Press the SLEEP button

$$\rightarrow 0 \rightarrow 15 \rightarrow 30 \rightarrow 45 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow 180 \longrightarrow$$

### Sleep Timer Message

60 seconds before the automatic shutoff, this message will appear:

> GOOD NIGHT !
> PUSH SLEEP TIMER BUTTON
> TO EXTEND
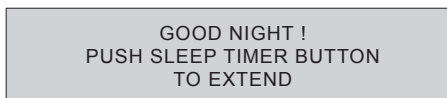
You then have 60 seconds to press the SLEEP button to delay the shut off.

## Display

The display screen shows the current status of timers, inputs and XDS ID.

At first, select TV or STB mode to use the display function.  See page 68.

Press the DISPLAY button

The screen to the right shows the following information:

| | |
|---|---|
| 05  KLVX  PBS | |
| JAZZ FESTIVAL | |
| NOW | 12:20 PM |
| SLEEP TIMER | OFF |
| ON/OFF TIMER | EVERYDAY |
| ON TIME | 7:00 PM |
| OFF TIME | 10:00 PM |

- The current channel or AV input (Channel 05)
- The current time (12:20 pm)
- Sleep timer status/minutes remaining (The Sleep Timer is off)
- On/off timer status (Set to turn on everyday at 7:00 PM, off at 10:00 PM)
- Each Press of the DISPLAY button changes the display mode:

$$\rightarrow \text{Display} \longrightarrow \text{Time} \longrightarrow \text{Channel} \longrightarrow \text{Off} \longrightarrow$$

**Display** - Full screen shown above

**Time** - Shows the current time only

**Channel** - Shows the current channel

**Off** - Turns display off

**Notes:**
- You may also turn off the display at any step by pressing MENU.
- If the clock, sleep timer or on/off timer are not set, the display screen will show: "CLOCK NOT SET", "SLEEP TIMER OFF", and "ON/OFF TIMER OFF" respectively.

## Twin

Activate the split-screen option by pressing TWIN on the remote control. The channel (or input) you were watching before pressing TWIN will appear on the left, the new channel will appear on the right. The sound will continue to come from the main screen channel (or input). To turn split-screen off and return to normal television viewing, press TWIN again or press the BACK button.

| 07 | V-1 |
|---|---|
| MAIN SCREEN PICTURE | SPLIT SCREEN PICTURE |
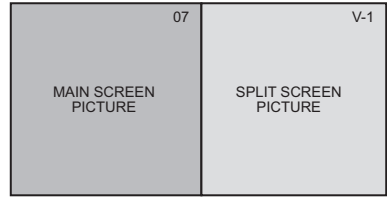
At first, select TV mode to use the TWIN function.

**Notes:**

- Main Screen and Split Screen will not display the same channel or input at the same time.

- You can enter the TWIN mode when the screen is in NORMAL mode.

- Split screen picture will not display digital channels and HDMI.

- Split-screen functions will not work with locked channels or channels blocked by V-Chip ratings limits. A gray screen will display instead.

- Split screen picture will not display the picture from the component terminal and the HDMI terminal.

- The aspect of Main Screen Picture becomes 16:9 when you input the picture of 480p, 720p and 1080i from the component terminal and HDMI terminal.

- After you press the SELECT button, and select split screen picture when you press the OK button, select normal screen. If you don't operate, the Main Screen Picture will be automatically selected about 8 seconds later.

- When you are in TWIN or FREEZE mode, you cannot change the aspect ratio.

- When you press the Menu button in Twin mode, it appears only as Picture Adjust menu.

- When you are in PC mode or 1080p mode, TWIN, SWAP, SELECT and FREEZE cannot be used.

## Swap

You can exchange the channel (or input) displayed in the split screen window for the main screen image by pressing the SWAP button.

At first, select TV mode to use the SWAP function.

**Notes:**
- It will only work in TWIN mode.
- If the signal that you are watching is coming from the HDMI input, you cannot enter the SWAP mode.

# Button Function

## Select

With SELECT, you can select the picture (channel) while viewing TWIN screen. When you press SELECT button, the channel number on the top will be highlighted. Each press of SELECT will shift the channel.

At first, select TV mode to use the Select function.

## Freeze

Pressing the FREEZE button causes the screen to change to the split-screen display with the still picture displayed on the right. In order to return to the normal display, press the FREEZE button once again.

At first, select TV mode to use the Freeze function.

## Mode

Your remote control can be used to operate some basic functions of your external devices. To use your device, select the proper mode.

| MODE | Device |
|------|--------|
| TV | TV |
| STB | STB/DVR (Cable Satellite) |
| VCR | VCR/DVR |
| DVD | DVD Player (DVD Recorder) |
| AUDIO | Amplifier/Home Theater in Box |

Press the MODE button

By every press of the Mode button, you can select the mode.

→ TV → STB → VCR → DVD → AUDIO →

• The mode LED indicator on the remote control lights for 3 seconds each time the remote control is operated.

## External device control buttons

You can use this remote control to operate the basic functions of your external devices. See page 69 on how to program the remote control to operate your other devices.

**Note:**

• The remote is preset to control JVC-brand devices.

# Remote Programming

## Remote programming

You can program your remote control to operate your external devices, using the instructions and codes on pages 70 - 74. The following external devices can be operated using your remote control.

| Device | Mode | Applied for these functions | Page |
|---|---|---|---|
| Cable Set Top Box<br>Cable/PVR Combination<br>Satellite Set Top Box<br>DBS/PVR Combination | STB | Power on/off, Channel up/down, Volume up/down, Number 0 - 9, Tune, Return+/ TV, Muting, Favorite Channel, Menu on/off, Arrow buttons, OK/Enter, Back, DVR (JVC Only)*, Guide (EPG), Sub Channel, Closed Caption, Display (Recall), Rewind (◄◄), Playback (►), Forward (►►), Record (●), Stop (■), Pause (❙❙). | 70 |
| VCR, DBS/PVR Combination<br>PVR, DVD/PVR Combination | VCR | Power on/off, Channel up/down, Menu on/off, Arrow buttons, OK/Enter, Back, Guide (EPG), TV/VCR, Closed Caption, Eject (▲), Rewind (◄◄), Playback (►), Forward (►►), Record (●), Stop (■), Pause (❙❙). | 71, 72 |
| DVD Player, DVD Recorder<br>Home Theater in Box | DVD | Power on/off, Channel up/down, Menu on/off, Arrow buttons, OK/Enter, Back, Guide (EPG), TV/DVD (TV/VCR button), Sub Title (Sub T.), Open/Close (▲), Rewind (◄◄), Playback (►), Forward (►►), Record (●), Stop (■), Still (❙❙). | 73 |
| Amplifier, Home Theater in Box, Receiver | AUDIO | Power on/off, Volume up/down, Muting, DVD operation buttons: Menu on/off, Arrow buttons, OK/Enter, Back, Sub Title (Sub T.), Open/Close (▲), Rewind (◄◄), Playback (►), Forward (►►), Stop (■), Still (❙❙). | 74 |

**\* DVR button only applies to JVC DVR (Dish Satellite STB).**

**Notes:**
- To record to your VCR or DVD, hold the record ( ● ) button on the remote control and press play ( ► ).
- If the code you programmed doesn't work, try the next one. If no codes work, refer to "Search Code Function" on page 69. If your remote does not work after using the "Search Code Function", use the remote that came with your device. Your TV remote cannot be guaranteed to work with all models, brands or operations.
- When the television remote control does not operate, for a model that allows you to switch the remote control code on the device side, you can try switching the setting to default or something else on the device side.

## How to set the codes

1) Find your device and device's brand from the code list. See page 70 - 74.
2) Select the mode of your device by pressing the MODE button. Then confirm the mode LED on the remote control.
3) Press and hold the TUNE button, then enter the first four digit code number listed using the number buttons. When the code is set, the mode LED goes out for a second, then it lights.
4) After confirming the proper mode LED, release the TUNE button, and confirm the operation of your device.
5) If your device does not respond, try and enter the next code.

## Search Code Function

1) Select a mode of your device by pressing the MODE button.
2) Press the POWER and RETURN+/TV buttons. Hold for at least 3 seconds and release. Then confirm the mode LED blinks.
3) Press any button* on the remote, and see if the selected device responds. *Use the applied buttons except for ◄ ► cursors, Return+/TV and Rec ( ● ) on the above chart.
4) If there was a response, press RETURN+/TV. The codes are now set. Then confirm the mode LED goes out.
5) If there was no response, try to select the previous code or the next code by using ◄ or ► . If you repeat a total of 65 times for the STB (90 times for the VCR, 120 times for the DVD and 132 times for the AUDIO) without a response, use the remote control that came with your equipment. Press RETURN+/TV to exit. Then confirm the mode LED goes out.

# Remote Programming

## Programming Codes

**STB mode**

### Cable Set Top Box

| Brand | Code |
|---|---|
| ABC | 0003, 0008 |
| Americast | 0899 |
| Bell South | 0899 |
| Digeo | 1187 |
| Director | 0476 |
| General Instrument | 0476, 0810, 0276, 0003 |
| GoldStar | 0144 |
| Hamlin | 0009, 0273 |
| Jerrold | 0476, 0810, 0276, 0003 |
| Memorex | 0000 |
| Motorola | 1376, 0476, 0810, 0276, 1187 |
| Pace | 1877, 0237, 0008 |
| Panasonic | 0000, 0008, 0107 |
| Paragon | 0000 |
| Philips | 1305, 0317, 0025 |
| Pioneer | 1877, 0877, 0144, 0533 |
| Pulsar | 0000 |
| Quasar | 0000 |
| Regal | 0279, 0273 |
| Runco | 0000 |
| Samsung | 0000, 0144 |
| Scientific Atlanta | 1877, 0877, 0477, 0008 |
| Sony | 1006 |
| Starcom | 0003 |
| Supercable | 0276 |
| Torx | 0003 |
| Toshiba | 0000 |
| Zenith | 0000, 0525, 0899 |

### Cable/PVR Combination

| Brand | Code |
|---|---|
| Americast | 0899 |
| Digeo | 1187 |
| General Instrument | 0810 |
| Jerrold | 0810 |
| Motorola | 1376, 0810, 1187 |
| Pace | 1877, 0237 |
| Pioneer | 1877, 0877 |
| Scientific Atlanta | 1877, 0877 |
| Sony | 1006 |
| Supercable | 0276 |
| Zenith | 0899 |

### Satellite Set Top Box

| Brand | Code |
|---|---|
| AlphaStar | 0772 |
| Chaparral | 0216 |
| Coolsat | 1806 |
| Crossdigital | 1109 |
| DirecTV | 1377, 0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 0724, 0819, 1856, 1076, 1108, 0099, 1109, 1414, 1442, 1609, 1392, 1640 |
| Dish Network System | 1505, 1005, 0775, 1170, 1775 |
| Dishpro | 1505, 1005, 0775, 1775 |
| Echostar | 1505, 1005, 0775, 1170, 1775 |
| Expressvu | 0775, 1775 |
| GE | 0566 |
| General Instrument | 0869 |
| GOI | 0775, 1775 |
| Hisense | 1535 |
| Hitachi | 0819 |
| HTS | 0775, 1775 |
| Hughes Network Systems | 1142, 0749, 1749, 1442 |
| Humax | 1790 |
| iLo | 1535 |
| JVC | 0775, 1170, 1775 |
| LG | 1414 |
| Magnavox | 0724, 0722 |
| Memorex | 0724 |
| Mitsubishi | 0749 |
| Motorola | 0869 |
| Next Level | 0869 |
| Panasonic | 0247, 0701 |
| Pansat | 1807 |
| Paysat | 0724 |
| Philips | 1142, 0749, 1749, 0724, 1076, 0722, 0099, 1442 |
| Proscan | 0392, 0566 |
| Proton | 1535 |
| RadioShack | 0869 |
| RCA | 0566, 0855, 0143, 1392 |
| Samsung | 1377, 1276, 1108, 1109, 1442, 1609 |
| SKY | 0856 |
| Sony | 0639, 1639, 1640 |
| Star Choice | 0869 |
| Tivo | 1142, 1442 |
| Toshiba | 0749, 1749, 0790, 1285 |
| UltimateTV | 1392, 1640 |
| Ultrasat | 1806 |
| Uniden | 0724, 0722 |
| US Digital | 1535 |
| USDTV | 1535 |
| Voom | 0869 |
| Zenith | 0856, 1856 |

### DBS/PVR Combination

| Brand | Code |
|---|---|
| DirecTV | 1377, 0392, 0639, 1142, 1076, 0099, 1392, 1442, 1640 |
| Dish Network System | 1505, 0775 |
| Dishpro | 1505, 0775 |
| Echostar | 1505, 0775, 1170 |
| Expressvu | 0775 |
| Hughes Network Systems | 1142, 1442 |
| JVC | 1170 |
| Motorola | 0869 |
| Philips | 1142, 0099, 1442 |
| Proscan | 0392 |
| RCA | 1392 |
| Samsung | 1442 |
| Sony | 0639, 1640 |
| Star Choice | 0869 |

## VCR mode

| VCR | | VCR | | VCR | |
|---|---|---|---|---|---|
| ABS | 1972 | Fisher | 0047, 0104, 0046 | Marta | 0037 |
| Admiral | 0048, 0209 | Fuji | 0035, 0033 | Matsushita | 0035, 0162, 0227, 1162 |
| Adventura | 0000 | Funai | 0000, 0593, 1593 | | |
| Aiko | 0278 | Garrard | 0000 | Media Center PC | 1972 |
| Aiwa | 0037, 0000, 0307, 0479 | Gateway | 1972 | MEI | 0035 |
| Akai | 0041, 0061, 0106 | GE | 0060, 0035, 0240, 0202, 0760, 0761, 0807, 1035, 1060 | Memorex | 0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0046, 0307, 0479, 1037, 1048, 1162, 1237, 1262 |
| Alienware | 1972 | | | | |
| America Action | 0278 | | | | |
| American High | 0035 | | | | |
| Asha | 0240 | Go Video | 0432, 0526 | | |
| Audiovox | 0037, 0278 | GoldStar | 0037, 0209, 0038, 0225, 1237 | | |
| Beaumark | 0240 | Gradiente | 0000 | MGA | 0240, 0043, 0061 |
| Bell & Howell | 0104 | Harley Davidson | 0000 | MGN Technology | 0240 |
| Broksonic | 0184, 0121, 0209, 0002, 0479, 1479 | Harman/Kardon | 0081, 0038 | Microsoft | 1972 |
| | | Harwood | 0072 | Mind | 1972 |
| Calix | 0037 | Headquarter | 0046 | Minolta | 0042, 0105 |
| Canon | 0035 | Hewlett Packard | 1972 | Mitsubishi | 0081, 0067, 0043, 0041, 0061, 0173, 0807 |
| Capehart | 0020 | HI-Q | 0047 | | |
| Carver | 0081 | Hitachi | 0037, 0240, 0000, 0042, 0041, 0105, 1037 | | |
| CCE | 0072, 0278 | | | Motorola | 0035, 0048 |
| Citizen | 0037, 0278, 1278 | Howard Computers | 1972 | MTC | 0240, 0000 |
| Colt | 0072 | HP | 1972 | Multitech | 0000, 0072 |
| Craig | 0037, 0047, 0240, 0072, 0271 | Hughes Network Systems | 0042, 0739 | NEC | 0035, 0037, 0048, 0104, 0067, 0041, 0038, 0008 |
| | | Humax | 0739 | | |
| Curtis Mathes | 0060, 0035, 0162, 0041, 0760, 1035 | Hush | 1972 | Nikko | 0037 |
| | | iBUYPOWER | 1972 | Niveus Media | 1972 |
| Cybernex | 0240 | Jensen | 0041 | Noblex | 0240 |
| CyberPower | 1972 | JVC | 0045, 0067, 0041, 0008, 0366, 1707, 1945, 1774, 1775, 1776, 1777 | Northgate | 1972 |
| Daewoo | 0045, 0104, 0278, 0020, 0046, 0561, 1278 | | | Olympus | 0035 |
| | | | | Optimus | 1062, 0162, 0037, 0048, 0104, 0432, 0593, 1048, 1162, 1262 |
| Daytron | 0020 | KEC | 0037, 0278 | | |
| Dell | 1972 | Kenwood | 0067, 0041, 0038 | | |
| Denon | 0042 | KLH | 0072 | Orion | 0184, 0121, 0209, 0002, 0208, 0479, 1479 |
| DirecTV | 0739 | Kodak | 0035, 0037 | | |
| Durabrand | 0039, 0038 | LG | 0037, 0045, 0042, 0209, 0038, 1037 | Panasonic | 1062, 0035, 0162, 0225, 0227, 0616, 1035, 1162, 1262 |
| Dynatech | 0000 | | | | |
| Electrohome | 0037 | Linksys | 1972 | | |
| Electrophonic | 0037 | Lloyd's | 0000, 0208 | Penney | 0035, 0037, 0240, 0042, 0038, 1035, 1237 |
| Emerex | 0032 | Logik | 0240, 0072 | | |
| Emerson | 0035, 0037, 0184, 0240, 0045, 0000, 0121, 0043, 0209, 0002, 0278, 1593, 1479, 1278, 0593, 0561, 0479, 0208, 0061 | LXI | 0037 | Pentax | 0042, 0105 |
| | | Magnasonic | 0593, 1278 | Philco | 0035, 0000, 0038 |
| | | Magnavox | 0035, 0039, 0081, 0000, 0149, 0563, 0593, 1593, 1781 | | |
| | | Magnin | 0240 | | |
| | | Marantz | 0035, 0081 | | |

# Remote Programming

## VCR mode

| VCR | | VCR | | PVR | |
|---|---|---|---|---|---|
| Philips | 0035, 0081, 0000, 0563, 0593, 0618, 0739, 1081, 1181, 1266 | Symphonic | 0000, 0593, 1593 | Howard Computers | 1972 |
| | | Systemax | 1972 | HP | 1972 |
| | | Tagar Systems | 1972 | Hughes Network Systems | 0739 |
| | | Tatung | 0081, 0045, 0000, 0067, 0041, 0008, 0366 | Humax | 0739 |
| Pilot | 0037 | | | Hush | 1972 |
| Pioneer | 0081, 0042, 0067 | | | iBUYPOWER | 1972 |
| Polk Audio | 0081 | Teac | 0000, 0041 | JVC | 1945 |
| Portland | 0020 | Technics | 0035, 0162 | Linksys | 1972 |
| Presidian | 1593 | Teknika | 0035, 0037, 0000 | Media Center PC | 1972 |
| Profitronic | 0240 | Thomas | 0000 | Microsoft | 1972 |
| Proscan | 0060, 0202, 0760, 0761, 1060 | Tivo | 0618, 0636, 0739, 1996 | Mind | 1972 |
| | | | | Niveus Media | 1972 |
| Protec | 0072 | TMK | 0240, 0208 | Northgate | 1972 |
| Pulsar | 0039 | Toshiba | 0081, 0045, 0042, 0067, 0043, 0041, 0008, 0057, 0366, 0845, 1008, 1145, 1972, 1996 | Panasonic | 0616, 1777 |
| Quarter | 0046 | | | Philips | 0618, 0739 |
| Quartz | 0046 | | | RCA | 0880 |
| Quasar | 0035, 0162, 1035, 1162 | | | ReplayTV | 0614, 0616 |
| | | | | Samsung | 0739 |
| RadioShack | 0000, 1037 | Totevision | 0037, 0240 | Sonic Blue | 0614, 0616 |
| Radix | 0037 | Touch | 1972 | Sony | 0636, 1972 |
| Randex | 0037 | Unitech | 0240 | Stack 9 | 1972 |
| RCA | 0060, 0035, 0240, 0000, 0042, 0149, 0105, 0106, 0202, 0760, 0761, 0807, 0880, 1035, 1060 | Vector | 0045 | Systemax | 1972 |
| | | Vector Research | 0038 | Tagar Systems | 1972 |
| | | Video Concepts | 0045, 0061 | Tivo | 0618, 0636, 0739 |
| | | Videomagic | 0037 | Toshiba | 1008, 1972, 1996 |
| | | Videosonic | 0240 | Touch | 1972 |
| Realistic | 0035, 0037, 0048, 0047, 0000, 0104, 0046 | Viewsonic | 1972 | Viewsonic | 1972 |
| | | Villain | 0000 | Voodoo | 1972 |
| | | Voodoo | 1972 | ZT Group | 1972 |
| ReplayTV | 0614, 0616 | Wards | 0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149, 0760 | | |
| Ricavision | 1972 | | | **DVD/PVR Combination** | |
| Runco | 0039 | | | | |
| Samsung | 0240, 0045, 0432, 0739, 0760, 1014 | | | Emerson | 0000 |
| | | White Westinghouse | 0209, 0072 | | |
| Sanky | 0048, 0039 | XR-1000 | 0035, 0000, 0072 | | |
| Sansui | 0000, 0067, 0209, 0041, 0271, 0479, 1479 | Yamaha | 0041, 0038 | | |
| | | Zenith | 0039, 0033, 0000, 0209, 0034, 0479, 1139, 1479 | | |
| Sanyo | 0047, 0240, 0104, 0046 | | | | |
| | | ZT Group | 1972 | | |
| Scott | 0184, 0045, 0121, 0043 | **DBS/PVR Combination** | | | |
| Sears | 0035, 0037, 0047, 0000, 0042, 0104, 0046, 0057, 0105, 1237 | | | | |
| | | Echostar | 1945 | | |
| | | Hughes Network Systems | 0739 | | |
| | | JVC | 1945 | | |
| Sharp | 0048, 0209, 0807, 0848, 1048 | Philips | 0739 | | |
| | | Samsung | 0739 | | |
| Shintom | 0104, 0072 | | | | |
| Shogun | 0240 | **PVR** | | | |
| Singer | 0045, 0072 | | | | |
| Sonic Blue | 0614, 0616 | ABS | 1972 | | |
| Sony | 0035, 0032, 0033, 0000, 0034, 0636, 0639, 0640, 1032, 1232, 1972 | Alienware | 1972 | | |
| | | CyberPower | 1972 | | |
| | | Dell | 1972 | | |
| | | DirecTV | 0739 | | |
| Stack 9 | 1972 | Dish Network System | 1945 | | |
| STS | 0042 | Echostar | 1945 | | |
| Sylvania | 0035, 0081, 0000, 0043, 0593, 1593, 1781 | Gateway | 1972 | | |
| | | Hewlett Packard | 1972 | | |

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## DVD mode

| DVD | | DVD | | DVD Recorder | |
|---|---|---|---|---|---|
| Accurian | 1416 | Magnavox | 0503, 0539, 0646, | Accurian | 1416 |
| Advent | 1016 | | 0675, 0821, 1268 | Apex Digital | 1056 |
| Aiwa | 0641 | Marantz | 0539 | Aspire Digital | 1168 |
| Akai | 0695, 0770, 0899 | Memorex | 0695, 0831, 1270 | CyberHome | 1129 |
| Alco | 0790 | Microsoft | 0522, 1708 | Denon | 0490 |
| Allegro | 0869 | Mintek | 0839, 0717 | Funai | 0675, 1334 |
| Apex Digital | 0672, 0717, 0755, | Mitsubishi | 1521, 0521 | Gateway | 1158 |
| | 0830, 1056, 1061 | NAD | 0741 | Go Video | 0741, 1158, 1304, |
| Arrgo | 1023 | NEC | 0785 | | 1730 |
| Aspire Digital | 1168 | Nesa | 0717 | iLo | 1348 |
| Audiovox | 0790 | NexxTech | 1402 | JVC | 1164 |
| Blaupunkt | 0717 | Norcent | 1003, 1107 | LG | 0741 |
| Blue Parade | 0571 | Onkyo | 0503, 0627 | LiteOn | 1158, 1416, 1440 |
| Broksonic | 0695 | Oritron | 0651 | Magnavox | 0646, 0675 |
| Cinea | 0831 | Panasonic | 0490, 0703, 1362, | Panasonic | 0490 |
| Cine Vision | 0876, 0833, 0869 | | 1462, 1490, 1762 | Philips | 0646, 1158 |
| Citizen | 1277 | Philips | 0503, 0539, 0646, | Pioneer | 0631 |
| Coby | 0778, 1107 | | 0675, 0854, 1158, | RCA | 0522 |
| Craig | 0831 | | 1260, 1267, 1354 | Samsung | 0490, 1470 |
| Curtis Mathes | 1087 | Pioneer | 0525, 0571, 0631 | Sensory Science | 1158 |
| CyberHome | 0816, 0874, 1023, | Polaroid | 1061 | Sharp | 0630, 0675 |
| | 1024, 1117, 1129 | Polk Audio | 0539 | Sony | 1033, 1431 |
| Daewoo | 0784, 0705, 0770, | Portland | 0770 | Sylvania | 0675 |
| | 0833, 0869, 1169, | Presidian | 0675 | Zenith | 0741 |
| | 1172 | Prima | 1016 | | |
| Denon | 0490, 0634 | Proscan | 0522 | **Home Theater in Box** | |
| Disney | 0675, 1270 | Pro Vision | 0778 | | |
| Durabrand | 1127 | Qwestar | 0651 | Aiwa | 0641 |
| DVD2000 | 0521 | RCA | 0522, 0571, 0717, | Audiovox | 0790 |
| Emerson | 0591, 0675, 0821, | | 0790, 0822, 1022, | JVC | 1770, 1771, 1772, |
| | 1268 | | 1132 | | 1773 |
| Enterprise | 0591 | Rio | 0869 | KLH | 0790 |
| ESA | 0821, 1268 | Rotel | 0623 | Koss | 0651 |
| Fisher | 0670 | Sampo | 0752 | Oritron | 0651 |
| Funai | 0675, 1268, 1334 | Samsung | 0490, 0573, 0744, | Polk Audio | 0539 |
| Gateway | 1158 | | 0820, 0899, 1044, | RCA | 0790 |
| GE | 0522, 0815, 0717 | | 1075, 1470 | Rio | 0869 |
| Go Video | 0744, 0715, 0741, | Sansui | 0695 | Sonic Blue | 0869 |
| | 0783, 0833, 0869, | Sanyo | 0670, 0695, 0873 | Teac | 0790 |
| | 1044, 1075, 1099, | Sensory Science | 1158 | Venturer | 0790 |
| | 1158, 1304, 1730 | Sharp | 0630, 0675, 0752, | | |
| GoldStar | 0741 | | 1256 | | |
| Greenhill | 0717 | Sharper Image | 1117 | | |
| Harman/Kardon | 0582, 0702 | Sherwood | 0770 | | |
| Hitachi | 0573, 0664, 1247 | Shinsonic | 0533, 0839 | | |
| Hiteker | 0672 | Sonic Blue | 0869, 1099 | | |
| Humax | 1500, 1588 | Sony | 0533, 1533, 0864, | | |
| iLo | 1348 | | 1033, 1431, 1536 | | |
| Initial | 0717 | Superscan | 0821 | | |
| Insignia | 1268 | Sylvania | 0675, 0821, 1268 | | |
| Integra | 0627 | Symphonic | 0675, 0821 | | |
| JBL | 0702 | Teac | 0717, 0790 | | |
| Jensen | 1016 | Technics | 0490, 0703 | | |
| JVC | 0558, 0623, 0867, | Theta Digital | 0571 | | |
| | 1164, 1602, 1770, | Tivo | 1503 | | |
| | 1771, 1772, 1773 | Toshiba | 0503, 0695, 1045, | | |
| Kawasaki | 0790 | | 1154, 1503, 1515, | | |
| Kenwood | 0490, 0534 | | 1588 | | |
| KLH | 0717, 0790, 1149 | Urban Concepts | 0503 | | |
| Koss | 0651 | US Logic | 0839 | | |
| Lasonic | 0798 | Venturer | 0790 | | |
| Lenoxx | 1127 | Xbox | 0522, 1708 | | |
| LG | 0591, 0741, 0869 | Yamaha | 0490, 0539, 0545 | | |
| LiteOn | 1058, 1158, 1416, | Zenith | 0503, 0591, 0741, | | |
| | 1440 | | 0869 | | |

## Audio mode

### Amplifier

| Brand | Codes |
|---|---|
| Amstrad | 0078 |
| Bose | 0674 |
| Curtis Mathes | 0300 |
| Durabrand | 1561 |
| GE | 0078 |
| Harman/Kardon | 0892 |
| JVC | 0331 |
| Left Coast | 0892 |
| Lenoxx | 1561 |
| Linn | 0269, 0282, 0829 |
| Marantz | 0892, 0269 |
| NEC | 0264 |
| Optimus | 0300, 0823 |
| Philips | 0892, 0269 |
| Pioneer | 0013, 0300, 0823 |
| Polk Audio | 0892, 0269 |
| RCA | 0300, 0823 |
| Shure | 0264 |
| Sony | 0689, 0815, 1126 |
| Soundesign | 0078 |
| Victor | 0331 |
| Wards | 0078, 0013 |
| Yamaha | 0354, 0133 |

### Receiver

| Brand | Codes |
|---|---|
| ADC | 0531 |
| Aiwa | 1405, 0121, 1243, 1388, 1641 |
| Akai | 1512 |
| Alco | 1390 |
| Amphion Media Works | 1563, 1615 |
| AMW | 1563, 1615 |
| Anam | 1609, 1074 |
| Apex Digital | 1257, 1430 |
| Audiotronic | 1189 |
| Audiovox | 1390 |
| Bose | 1229, 0639, 1841, 1933 |
| Brix | 1602 |
| Cambridge Soundworks | 1370 |
| Capetronic | 0531 |
| Carver | 1189 |
| Classic | 1352 |
| Coby | 1389 |
| Criterion | 1420 |
| Daewoo | 1250 |
| Delphi | 1414 |
| Denon | 1360, 0771, 1142, 1660, 2832 |
| Garrard | 0463 |
| Gateway | 1517 |
| Go Video | 1532 |
| Harman/Kardon | 0110, 0891, 1304, 1306 |
| Initial | 1426 |
| Insignia | 1751 |
| Integra | 0135, 1298, 1320 |
| JBL | 0110, 1306 |
| JVC | 0531, 1374, 1495, 1560, 1676, 1871, 1894 |
| Kenwood | 1313, 1570, 1569 |
| KLH | 1390, 1412 |
| Koss | 1366, 1497 |
| Lasonic | 1798 |
| Lenoxx | 1437 |
| LG | 1293, 1869 |
| Liquid Video | 1497 |
| Magnavox | 1189, 1269, 0531, 1514 |
| Marantz | 1189, 1269, 0891, 1289 |
| Mitsubishi | 1393 |
| NexxTech | 1751 |
| Norcent | 1389, 1751 |
| Nova | 1389 |
| Onkyo | 0135, 0842, 1298, 1320, 1531 |
| Optimus | 1023, 0531, 1074 |
| Oritron | 1366, 1497 |
| Panasonic | 1308, 1518, 0367, 1288, 1316, 1548, 1633, 1763, 1764 |
| Philips | 1189, 1269, 0891, 1266, 1289, 1673 |
| Pioneer | 1023, 0014, 0150, 0531, 0630, 1123, 1384, 1823 |
| Polaroid | 1508 |
| Polk Audio | 1289, 1414 |
| Proscan | 1254 |
| RCA | 1023, 1609, 1254, 0531, 1074, 1123, 1390, 1511 |
| Regent | 1437 |
| Rio | 1869 |
| Saba | 0531, 1519 |
| Samsung | 1295, 1500 |
| Sansui | 1764 |
| Sanyo | 1251, 1469 |
| Sharp | 0771, 1286 |
| Sharper Image | 1556 |
| Sherwood | 1517, 1653 |
| Shinsonic | 1426 |
| Sirius | 1602 |
| Sonic Blue | 1532, 1869 |
| Sony | 1058, 1441, 1258, 1759, 1622, 0474, 1406, 1558, 1658, 1758, 1858, 1958 |
| Stereophonics | 1023 |
| Sunfire | 1313 |
| Teac | 0463, 1074, 1390, 1528 |
| Technics | 1308, 1518, 1384 |
| Thorens | 1189 |
| Toshiba | 1788 |
| Venturer | 1390 |
| Wards | 0014 |
| XM | 1406, 1414 |
| Yamaha | 0176, 1176, 1276, 1331, 1375, 1476 |
| Zenith | 0857, 1293 |

### Home Theater in Box

| Brand | Codes |
|---|---|
| Aiwa | 1388, 1641 |
| Amphion Media Works | 1563, 1615 |
| AMW | 1563, 1615 |
| Anam | 1609 |
| Apex Digital | 1257, 1430 |
| Audiovox | 1390 |
| Bose | 1229, 1933 |
| Cambridge Soundworks | 1370 |
| Classic | 1352 |
| Coby | 1389 |
| Criterion | 1420 |
| Daewoo | 1250 |
| Denon | 2832 |
| Durabrand | 1561 |
| Gateway | 1517 |
| Go Video | 1532 |
| Initial | 1426 |
| Insignia | 1751 |
| Integra | 1298 |
| JBL | 1306 |
| JVC | 1374, 1495, 1676, 1871 |
| KLH | 1390, 1412 |
| Koss | 1366, 1497 |
| Lasonic | 1798 |
| Lenoxx | 1561 |
| LG | 1293, 1869 |
| Liquid Video | 1497 |
| Magnavox | 1514 |
| NexxTech | 1751 |
| Norcent | 1389, 1751 |
| Nova | 1389 |
| Onkyo | 1298, 1531 |
| Oritron | 1366, 1497 |
| Panasonic | 1288, 1316, 1548, 1633, 1763, 1764 |
| Philips | 1266, 1673 |
| Pioneer | 1384 |
| Polaroid | 1508 |
| Polk Audio | 1289 |
| RCA | 1609, 1390, 1511 |
| Regent | 1437 |
| Rio | 1869 |
| Saba | 1519 |
| Samsung | 1295, 1500 |
| Sanyo | 1469 |
| Sharper Image | 1556 |
| Sherwood | 1517 |
| Shinsonic | 1426 |
| Sonic Blue | 1532, 1869 |
| Sony | 0689, 1622, 1558, 1658, 1758, 1858, 1958 |
| Teac | 1390, 1528 |
| Toshiba | 1788 |
| Venturer | 1390 |
| Yamaha | 1331, 1375 |
| Zenith | 1293 |

## Weak Signal

This OSD appears when the digital channel that you have selected is too weak to receive or no signal is being detected for that channel.
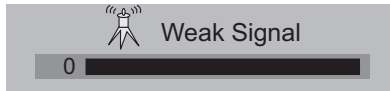


## No Program

It appears when that channel is not receiving a signal and you have the Noise Muting function OFF and you have a single screen.  It moves automatically every two seconds to prevent the screen from burn-in.

**Notes:**

• Even if "NO PROGRAM" appears on the screen, your timer functions and auto shut off functions that you set, are still active.
• If you are watching an analog channel, NO PROGRAM does not appear.

## Invalid Signal

If you are inputting a PC signal that is invalid, "Invalid Signal" will appear on the TV screen.  It appears when the input is PC and it is a single screen.

# Troubleshooting

Refer to the table below to check the condition. If you think that there is a problem, contact the JVC Service Center where you purchased the television.

| PROBLEMS | CHECK |
|---|---|
| There is no power | • See if the power cord became unplugged.<br>• Check for a blown fuse or circuit breaker or a power outage. |
| There is no picture or sound | • The antenna could be disconnected.<br>• The input mode could be set improperly. See page 59.<br>• The tuner (Auto Tuner Setup) could be set improperly. See page 37.<br>• The TV station may be having difficulties. Check to see if other stations are working.<br>• Use the HDMI cable with HDMI logo **HDMI**. See page 19.<br>• If you have a device connected to INPUT-1, INPUT-2 or INPUT-5 (set "V5 INPUT" in the INITIAL SETUP menu to "HDMI"). You will not be able to hear any audio from the AUDIO OUT on the back of the TV.<br>• You cannot output audio using the OPTICAL OUTPUT when you have digital sound from an HDMI device connected to the INPUT-1, INPUT-2 or INPUT-5 (set "V5 INPUT" in the INITIAL SETUP menu to "HDMI") connection on the back of the TV. (See page 18).<br>• This TV can accept 480i (Composite / S / HDMI / Component), 480p, 720p and 1080i signals. Please check your settings. |
| Remote control is not operating properly or at all | • Check to see that the batteries are still working and properly installed.<br>• Make sure the remote has a clear sight path to the TV.<br>• You may be too far from the TV. You must be within 23 feet (7 meters). |
| You cannot select a certain channel | • Make sure the channels have been programmed. See "Channel Summary", page 38.<br>• Check to see if the channel is locked. See "Channel Summary - Lock" page 39. |
| The power turns off by itself | • Make sure the set did not become unplugged.<br>• Perhaps the On/Off Timer is set. See page 57.<br>• Check to see if the Sleep Timer was set. See page 66. |
| It does not operate correctly | • This television is operated by a microprocessor. It is possible that external noise or interference is causing the problem. If the television does not function correctly, remove the electrical plug from the wall outlet and wait a while before inserting it into the wall outlet again and operating the television. |
| The clock is wrong | • The power was interrupted and the clock was not reset. See page 56. |
| The color quality is poor | • Tint and Color may be improperly adjusted. See page 50.<br>• The Video Status mode may be turned to the wrong setting. See page 65. |
| There are lines across the picture | • There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV. |
| The picture is spotted | • There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference. |
| There are double pictures (ghosts) | • A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position. |
| Picture is snowy (image noise) | • Your antenna may be damaged, disconnected or turned. Check the antenna connection. If the antenna is damaged, replace it. |

# Troubleshooting

| PROBLEMS | CHECK |
|---|---|
| Screen is 80% black | • The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 34. |
| Stereo or bilingual programs can't be heard | • Make sure the MTS settings are correct. See page 64. |
| Static electricity | • It is normal to feel static electricity if you brush or touch the screen. |
| You hear occasional crackling sounds | • It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine. |
| It does not operate correctly | • Press the CHANNEL- and VOLUME- buttons on the side panel of the TV simultaneously for a few seconds.  The Digital Tuner will be reset.  If this does not reset it correctly, unplug the power cord and plug it back in. |
| The picture is slightly cut off when you use 1080p format only | • Change the picture format setting on your external device to 1080i or other resolution. |
| The screen disappears except for the menu screen | • This occurs when you select a digital menu when your input source is from the HDMI connection.  Press the menu button. |
| My HDMI device doesn't work or doesn't work properly | • This JVC television can accept a variety of HD signals, including 720/60p, 1080/60i and 1080/60p.  It does not accept a 1080/24p signal.  Please note that in some cases, a Blu-ray or HD-DVD may only offer the choice of 1080/60i or 1080/24p.  In this case, it is necessary to choose the 1080/60i output.  Please refer to your Blu-ray/HD-DVD manual for complete details on choosing the correct output. |

## The following are not malfunctions.

• The television may make a creaking sound if the temperature of the room or the temperature of the inside of the television changes. If there is no problem with the screen or sound, then there is no need to worry.

• Although the picture may be temporarily disturbed and noise may be seen on the screen if the power is turned on immediately after it has been turned off, this is not a malfunction.

# Specifications

| Model | LT-37X898 | LT-42X898 | LT-47X898 |
|---|---|---|---|
| Type | LCD Flat Television | | |
| Reception Format | NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable | | |
| Reception Range | VHF 2 to 13, UHF 14 to 69 at ATSC, CATV 135 Sub, Mid, Super, Hyper and Ultra bands at Digital Cable | | |
| | VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (191 channel frequency synthesizer system) at Analog<br>• Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set. | | |
| Power Source | AC 120V, 60 Hz | | |
| Power Consumption | 240W | 280W | 355W |
| Screen Size | 37 inch / 94 cm measured diagonally, 16:9 ratio | 42 inch / 106.7 cm measured diagonally, 16:9 ratio | 47 inch / 119.4 cm measured diagonally, 16:9 ratio |
| Audio Output | 10W + 10W | | |
| Speakers | 4.5 x 16cm Twin Oblique Cone x 2 | | |
| Antenna Terminal (VHF/UHF, ATSC/DIGITAL CABLE IN) | 75 ohms (VHF/UHF)(F-type connector) | | |
| Input 3, 4, 5 Terminal | 480i<br>S (Input 3)<br>    Y: 1 Vp-p positive, 75 ohms (negative sync provided)<br>    C: 0.286 Vp-p (burst signal), 75 ohms<br>Video: 1 Vp-p, 75 ohms<br>Audio: 500 mVrms (-4dBs) high impedance | | |
| Input 3, 4 Terminal (Component Terminal) | 1080i / 720p / 480p / 480i<br>Y: 1 Vp-p positive, 75 ohms (negative sync provided)<br>$P_B/P_R$: 0.7 Vp-p 75 ohms | | |
| Input 1, 2, 5 Terminal (HDMI Input Terminal) | Video: 1080p / 1080i / 720p / 480p / 480i<br>Audio: 2ch PCM, 32 / 44.1 / 48 KHz 16 / 20 / 24 bit<br>• Personal computer compatibility cannot be guaranteed. | | |
| Input 5 (PC Input Jacks) | Analog RGB D-SUB (15 pin) x 1, RS-232C (9 pin) x 1<br>• PC signal is available. Refer to page 23 for details on the signals which can be input. | | |
| Audio Output Jacks (FIX) | FIX : 500mVrms (-4dBs), Low Impedance | | |
| Optical Output Digital Audio | Digital Out (optical) x 1 | | |
| Dimensions (inch/cm) W X H X D | 35 1/2 x 25 3/4 x 9 1/8 (with stand)<br>90.1 x 65.1 x 23 (with stand) | 39 3/4 x 27 7/8 x 11 3/4 (with stand)<br>100.7 x 70.8 x 29.6 (with stand) | 44 1/4 x 30 1/2 x 11 3/4 (with stand)<br>112.1 x 77.4 x 29.6 (with stand) |
| | 35 1/2 x 23 3/4 x 5 1/2 (without stand)<br>90.1 x 60.1 x 13.9 (without stand) | 39 3/4 x 26 x 5 1/8 (without stand)<br>100.7 x 66 x 13 (without stand) | 44 1/4 x 28 5/8 x 5 1/8 (without stand)<br>112.1 x 72.7 x 13 (without stand) |
| Weight (lbs / kg) | 52.8 / 24 (with stand) | 61.6 / 28 (with stand) | 77 / 35 (with stand) |
| | 48.4 / 22 (without stand) | 52.8 / 24 (without stand) | 68.2 / 31 (without stand) |
| Accessories | Refer to "unpacking your TV", page 9 | | |

**Specifications subject to change without notice.**

• The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/05_AtscQam/download.html

# JVC® LIMITED WARRANTY

| For Canadian model televisions, see separate sheets for Canadian Warranty information. |
|---|

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")
FOR DIRECT-VIEW COLOR TELEVISION, PICTURE TUBE is covered for Two(2)years.

| Parts | Labor |
|---|---|
| **1** YEAR | **1** YEAR |

**THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.**

**WHAT WE WILL DO:**
If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

**WHAT YOU MUST DO FOR WARRANTY SERVICE:**
*Please do not return your product to the retailer*
Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722

**WHAT IS NOT COVERED:**
This limited warranty provided by JVC does not cover:
1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

**JVC COMPANY OF AMERICA**          1700 Valley Road
DIVISION OF JVC AMERICAS CORP.      Wayne, NJ 07470
http://www.jvc.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

**For customer use:**
Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : _____   Serial No. : _____

Purchase date : _____   Name of dealer : _____

# *TO OUR VALUED CUSTOMER* ——————

THANK YOU FOR PURCHASING THIS JVC PRODUCT.

WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

### NEED HELP ON HOW TO HOOK UP?
### NEED ASSISTANCE ON HOW TO OPERATE?
### NEED TO LOCATE A JVC SERVICE CENTER?
### LIKE TO PURCHASE ACCESSORIES?

# **JVC**® IS HERE TO HELP!
# TOLL FREE: 1(800)252-5722
# http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

—————— **Do not attempt to service the product yourself** ——————

**Caution**
To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

# Notes

# Notes

# Notes